

20010821.qrp v02_n288.qrl.20010821

Date: Tue, 21 Aug 2001 19:03:13 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2288

QRP-L Digest 2288

Topics covered in this issue include:

- 1) [105295] C transistor markings
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 2) [105296] Re: Slingshots - a Slingshotologist's tip
by "WB3LGC aka Stephen M. Shearer" <wb3lgc@netzero.net>
- 3) [105297] insulating the end fed wire
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 4) [105298] Re: Huntsville Hamfest [Brown-Bag Contest]
by "Michael C. Boatright" <ko4wx@mindspring.com>
- 5) [105299] slingshots tubing and eyeprotection during antenna projects
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 6) [105300] Re: Huntsville Hamfest [Brown-Bag Contest]
by "w8diz" <w8diz@fpqrp.com>
- 7) [105301] Re: insulating the end fed wire
by "Rob Matherly" <kc0bom@yahoo.com>
- 8) [105302] adr for Ten Tec reflector and subscriptions
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 9) [105303] Re: Got one - distance calculator
by DYARNES@aol.com
- 10) [105304] Re: adr for Ten Tec reflector and subscriptions
by cherry@getnet.net
- 11) [105305] K0EVZ going to Ukraine
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 12) [105306] Re: Costco "Atomic" clock
by "Dave Fifield" <dave@redhotradio.com>
- 13) [105307] Altoids and other tins
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 14) [105308] Re: 75 vs. 50 in G5RV coax version --how to join coax and ladder
line
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 15) [105309] Re: Altoids and other tins
by "Rob Matherly" <kc0bom@yahoo.com>
- 16) [105310] Re: Altoids and other tins
by "Mike Yettsko" <myetsko@insydesw.com>
- 17) [105311] K1 HELP
by "w8diz" <w8diz@fpqrp.com>
- 18) [105312] Re: K1 HELP
by "w8diz" <w8diz@fpqrp.com>

- 19) [105313] Re: Altoids and other tins
by "Rob Matherly" <kc0bom@yahoo.com>
- 20) [105314] Re: Altoids and other tins
by Phil Wheeler <w7ox@earthlink.net>
- 21) [105315] Re: K1 HELP
by "Rod Cerkoney, N0RC" <rod@n0rc.com>
- 22) [105316] New Challenge
by Phil Wheeler <w7ox@earthlink.net>
- 23) [105317] Re: K1 HELP
by tjmc <tjmc@erols.com>
- 24) [105318] Re: New Challenge
by "Mike Yetsko" <myetsko@insydesw.com>
- 25) [105319] Re: Got one - distance calculator
by "Karl F. Larsen" <k5di@zianet.com>
- 26) [105320] Re: New Challenge
by Phil Wheeler <w7ox@earthlink.net>
- 27) [105321] SW-40+ Help
by Dan & Teena Case <dtcase@pcpartner.net>
- 28) [105322] [105200] Re: [fpqrp] Huntsville Hamfest
by "Craig W. Behrens" <craigwb@hiwaay.net>
- 29) [105323] (Fwd) Re: Tune Switch for IC-718
by "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
- 30) [105324] Re: (Fwd) Re: Tune Switch for IC-718
by "Mike Mellinger WA0SXV" <wa0sxv@mellinger.com>
- 31) [105325] Extension Ladder Article--Thanks
by ARDUJENSKI@aol.com
- 32) [105326] Re: New Challenge
by "DTX" <dtx@wood.tzo.com>
- 33) [105327] Re: New Challenge
by Phil Wheeler <w7ox@earthlink.net>
- 34) [105328] Re: (Fwd) Re: Tune Switch for IC-718
by "George, W5YR" <w5yr@att.net>
- 35) [105329] grid-leak bias
by David Sarraf <david.sarraf@paonline.com>
- 36) [105330] Re: Lifesaver Cores
by Jeff Furman <jfurman@ocs.net>
- 37) [105331] Re: K0EVZ going to Ukraine
by Bob Nielsen <nielsen@oz.net>
- 38) [105332] Re: K0EVZ going to Ukraine
by Phil Wheeler <w7ox@earthlink.net>
- 39) [105333] SST Thirty - Foto Finish
by "N7SG K7FD" <k7fd@hotmail.com>
- 40) [105334] RE Berring and distance
by John R Kirby <n3aaz-qrp@juno.com>
- 41) [105335] Re: K0EVZ going to Ukraine
by "Karl F. Larsen" <k5di@zianet.com>
- 42) [105336] Re: [fpqrp] Huntsville Hamfest [Brown-Bag Contest]
by "Brian" <brian@iquest.net>

- 43) [105337] NEQRP SSB NET meets TONITE, Tuesday at 7:30PMEDST 7.285 +-5MZ
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
- 44) [105338] Re: New Challenge
by "John L. Sielke" <w2agn@pobox.com>
- 45) [105339] NEQRP SSB NET
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
- 46) [105340] TDIA Brown Bag Mystery Construction Competition write up on
NOGA QRP page
by "Michael C. Boatright" <ko4wx@mindspring.com>
- 47) [105341] RE: Costco "Atomic" clock
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 48) [105342] Ten Tec Reflector is Working!
by "Zoerb, Ron" <Zoerb.Ron@broadband.att.com>
- 49) [105343] Conversions ?
by "Ron Pierce" <ni0l@indytel.com>
- 50) [105344] Re: RBA-1 Balun
by Bill Coleman <aa4lr@arrl.net>
- 51) [105345] Re: RBA-1 Balun
by Bill Coleman <aa4lr@arrl.net>
- 52) [105346] Re: RBA-1 Balun
by Bill Coleman <aa4lr@arrl.net>
- 53) [105347] Re: Altoids and other tins
by "Dan Evans" <n9rla@yahoo.com>
- 54) [105348] Re: Altoids and other tins
by "Lee S. Mairs" <lmairs@cox.rr.com>
- 55) [105349] Re: [fpqrp] TDIA Brown Bag Mystery Construction Competition write up
onNOGA QRP page
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 56) [105350] FS: NorCal 20 (Club Version) Unassembled.
by "Rod Cerkoney, N0RC" <rod@n0rc.com>
- 57) [105351] Trade
by "Mike Branca" <w3irz@att.net>
- 58) [105352] Norcal 20 questions
by "Mike Morrell" <morrellm@ameritech.net>
- 59) [105353] RE: Costco "Atomic" clock
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 60) [105354] Re: RBA-1 Balun
by lhlousek <lhlousek@nvhbell.net>
- 61) [105355] Re: TX/RX in Beer Can
by George Franklin <w0av@juno.com>
- 62) [105356] Fwd: Request to mailing list TenTec rejected
by cherry@getnet.net
- 63) [105357] Re: RBA-1 Balun
by "Karl F. Larsen" <k5di@zianet.com>
- 64) [105358] Re: RBA-1 Balun
by cherry@getnet.net
- 65) [105359] Re: RBA-1 Balun
by Phil Wheeler <w7ox@earthlink.net>

- 66) [105360] SST question; TT1340 question
by "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
- 67) [105361] SST question
by "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
- 68) [105362] Re: K0EVZ going to Ukraine
by "Rob Matherly" <kc0bom@yahoo.com>
- 69) [105363] MI QRP Net Tuesday night at 9:00 PM Eastern Time on 3.535 MHz
by "Kwik, Ed " <ed.kwik@delphiauto.com>
- 70) [105364] Re: RBA-1 Balun
by cherry@getnet.net
- 71) [105365] N to bnc
by Elda & Doug Wilson <ewilson@nccn.net>
- 72) [105366] Fox--N6WG & NW7DX Thursday evening
by "Bob Tellefsen" <n6wg@earthlink.net>
- 73) [105367] Basics: Rebuilding a Volt/Ohm Meter
by "Phinizy, William" <wphinizy@filenet.com>
- 74) [105368] Collapsible poles from Walmart
by George Heron <gheron@safenet-inc.com>
- 75) [105369] MP-1 Antenna ground
by CHARLES K BROWN <n4so@juno.com>
- 76) [105370] Re: Collapsible poles from Walmart
by Jeff Stai WK6I <jstai@home.com>
- 77) [105371] RE: RBA-1 Balun
by Bill Coleman <aa4lr@arrl.net>
- 78) [105372] Re: RBA-1 Balun
by Bill Coleman <aa4lr@arrl.net>
- 79) [105373] Re: Basics: Rebuilding a Volt/Ohm Meter
by "George, W5YR" <w5yr@att.net>
- 80) [105374] Re: MP-1 Antenna ground
by "George, W5YR" <w5yr@att.net>
- 81) [105375] Re: RBA-1 Balun
by Phil Wheeler <w7ox@earthlink.net>
- 82) [105376] Re: [fpqrp] Huntsville Hamfest [Brown-Bag Contest]
by Macstein@aol.com
- 83) [105377] SSS Kits
by "Bob Hightower" <nk7m@extremezone.com>
- 84) [105378] Norcal 20 questions Redux
by "Mike Morrell" <morrellm@ameritech.net>
- 85) [105379] Re: RBA-1 Balun
by "George, W5YR" <w5yr@att.net>
- 86) [105380] Re: [fpqrp] TDIA Brown Bag Mystery Construction Competition write up
on NOGA ...
by Macstein@aol.com
- 87) [105381] Re: Basics: Rebuilding a Volt/Ohm Meter
by "Mike Yetsko" <myetsko@insydesw.com>
- 88) [105382] Re: Fwd: Request to mailing list TenTec rejected
by William R Colbert <w5xe@juno.com>
- 89) [105383] Results of the FLIGHT OF THE BUMBLEBEES

- by Russ Carpenter <russ@natworld.com>
- 90) [105384] Sad Note
by "Charles Mabbott" <crmabbott@mediaone.net>
- 91) [105385] Re: SSS Kits
by n2cx@voicenet.com
- 92) [105386] N to BNC
by Elda & Doug Wilson <ewilson@nccn.net>
- 93) [105387] Re: MP-1 Antenna ground
by Bruce Muscolino <w6toy@erols.com>
- 94) [105388] FS: Ten Tec ARGOSY
by kcieslak <kcieslak@execpc.com>
- 95) [105389] Re: Collapsible poles from Walmart
by "Lee S. Mairs" <lmairs@cox.rr.com>
- 96) [105390] Re: Results of the FLIGHT OF THE BUMBLEBEES
by "Delbert Long" <delbert@gmcompliance.com>
- 97) [105391] OT --Calculators
by ARDUJENSKI@aol.com
- 98) [105392] Re: MP-1 Antenna ground
by cherry@getnet.net
- 99) [105393] RE: OT --Calculators
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 100) [105394] Re: Altoids and other tins
by Dave Fouchey <dafouchey@home.com>
- 101) [105395] Listen for THE ARS RENDEZVOUS!
by Russ Carpenter <russ@natworld.com>

Date: Mon, 20 Aug 2001 18:05:33 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <w6toy@erols.com>
Cc: <qrp-1@Lehigh.EDU>
Subject: [105295] C transistor markings
Message-ID: <025601c129cc\$9da0c1b0\$4e100a0a@rohredt2000>

Bruce,
I was able to help Delbert because I had run onto this before: Cxxxx
transistors are abbreviated Japanese transistor part numbers of the 2SCxxxx
style. I first ran onto this fixing CB radios for people back in the late
70's! You can look them up in NTE as 2SCxxxx, and in some crosses some
years back they also had them as Cxxxx. Lots of good RF stuff in VCRs!
73,
Stuart K5KVH

Date: Mon, 20 Aug 2001 18:33:26 -0400
From: "WB3LGC aka Stephen M. Shearer" <wb3lgc@netzero.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105296] Re: Slingshots - a Slingshotologist's tip
Message-ID: <5.0.2.1.0.20010820182830.00a6bc80@pop.netzero.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Try an old tennis ball (hole for string) with the surf pole. If it hits anything it's less likely to break it...

At 12:39 PM 8/20/01, Mike Branca wrote:

>Personally, however, I prefer to use my surf casting rod as I feel that it
>is so much easier. My weight is an old auto spark plug tied to 20 # line.
>Obviously an overhead cast is necessary and yes practice is necessary here
>too. The advantage of using the rod is that if for some reason you made a
>wild cast you can arrest the projectile by manipulating the line to prevent
>damage or injury.

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Date: Mon, 20 Aug 2001 18:09:23 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <aa5jj@swbell.net>
Cc: <qrp-1@Lehigh.EDU>
Subject: [105297] insulating the end fed wire
Message-ID: <025c01c129cd\$2677e270\$4e100a0a@rohredt2000>

Hi,
Find an old hardware store that still has ceramic feedthru tubes and use one of those thru a drilled hole in the trailer. If you do not want to drill a hole, put plastic or wood in bottom of window sill, and drill that for wire to pass thru. Shellac wood, and the plastic of course is self insulating. Another way is the feed thru tubes sold at Radio Shack for TV twin lead, but they are larger diameter.

72,
Stuart K5KVH

Date: Mon, 20 Aug 2001 19:17:20 -0400
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-1@Lehigh.EDU
Cc: w8diz@fpqrp.com
Subject: [105298] Re: Huntsville Hamfest [Brown-Bag Contest]
Message-ID: <5.0.2.1.2.20010820191323.02139810@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

<http://www.nogaqrp.org/activities/OinkOut/nogastompsfp.jpg>

72 de Mike, K04WX
(FP#298, although likely to soon be revoked, I would guess...)
Michael C. Boatright

Date: Mon, 20 Aug 2001 18:21:01 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Phil Wheeler" <w7ox@earthlink.net>
Cc: <qrp-1@Lehigh.EDU>
Subject: [105299] slingshots tubing and eyeprotection during antenna projects
Message-ID: <027b01c129ce\$c6af17d0\$4e100a0a@rohredt2000>

Always use eye protection with any antenna line launching device! Good point about cool storage for rubber parts, and if you inspect the surgical tubing, you will find micro cracks when they age, which is the warning of time to change the rubber tubing for new. They will be darkening of the tubing in some cases as well.

GL and 72,
Stuart K5KVH

Date: Mon, 20 Aug 2001 19:28:38 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: <qrp-1@Lehigh.EDU>, "Michael C. Boatright" <ko4wx@mindspring.com>, <fpqrp-1@mpna.com>
Subject: [105300] Re: Huntsville Hamfest [Brown-Bag Contest]
Message-ID: <008d01c129cf\$d805c370\$e2df1b41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OK, that's it! Aint gonna take any more of this abuse.

THIS MEANS WAR.

Be prepared to meet your maker!

Commander General FP#-1 - MidWest Division

----- Original Message -----

From: "Michael C. Boatright" <ko4wx@mindspring.com>

To: <qrp-1@Lehigh.EDU>

Cc: <w8diz@fpqrp.com>

Sent: Monday, August 20, 2001 7:17 PM

Subject: Re: Huntsville Hamfest [Brown-Bag Contest]

> <http://www.nogaqrp.org/activities/OinkOut/nogastompsfp.jpg>

>

> 72 de Mike, K04WX

> (FP#298, although likely to soon be revoked, I would guess...)

> Michael C. Boatright

>

>

Date: Mon, 20 Aug 2001 18:28:13 -0500

From: "Rob Matherly" <kc0bom@yahoo.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [105301] Re: insulating the end fed wire

Message-ID: <009901c129cf\$c9575f00\$a211a541@intern01>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

What I did here in the shack was to take about 3' of old 75 ohm tv coax and take the outer insulation off of it. Then I slid it over the copper weld and now it's insulated from the tuner out the window. Not sure if it would apply in this case, but figured I'd mention it anyway. :-)

72/73

Rob, kc0bom

----- Original Message -----

From: Stuart Rohre <rohrer@arlut.utexas.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, August 20, 2001 6:09 PM
Subject: insulating the end fed wire

> Hi,
> Find an old hardware store that still has ceramic feedthru tubes and use
one
> of those thru a drilled hole in the trailer. If you do not want to drill
a
> hole, put plastic or wood in bottom of window sill, and drill that for
wire
> to pass thru. Shellac wood, and the plastic of course is self insulating.
> Another way is the feed thru tubes sold at Radio Shack for TV twin lead,
but
> they are larger diameter.
> 72,
> Stuart K5KVH
>

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Mon, 20 Aug 2001 18:32:27 -0500
From: "Stuart Rohre" <rohrer@arlut.utexas.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [105302] adr for Ten Tec reflector and subscriptions
Message-ID: <02a301c129d0\$5fca62c0\$4e100a0a@rohredt2000>

Several have recently asked for this, this came from a post to that
reflector, today Monday 20 Aug.:
TenTec mailing list
TenTec@contesting.com
<http://lists.contesting.com/mailman/listinfo/tentec>

Hope this helps,
Stuart K5KVH

Date: Mon, 20 Aug 2001 19:51:10 EDT
From: DYARNES@aol.com
To: ke3fl@yahoo.com, qrp-1@lehigh.edu
Subject: [105303] Re: Got one - distance calculator
Message-ID: <ae.198bc9a8.28b2fc6e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 8/20/01 6:08:21 AM US Mountain Standard Time,
ke3fl@yahoo.com writes:

<< The reason I was looking is that I had a vry nice QRP
QSO wid Chuck/W4VAC who was running a homebrew rig at
abt 15W. I thought I was at abt 4W but when I measured
it wid the OHR wattmeter it was only 400mW, and I sure
Memphis TN was a bit more than 500mi from Mt Airy MD. >>

Your right! According to my "handy-dandy" Pocket PC, the distance from
Memphis to Baltimore (closest I could get to Mt Airy) is 793 miles.

For the benefit of others, here is some detail about the program on my Pocket
PC. It is called CityTime, and only cost about \$15. A trial version is
available free, but only works for a couple of weeks. In addition to
distance, it shows bearing for beam headings, and also has a grayline
display. Other info available include airport codes, sunrise and sunset, and
you can compute travel time if you're interested in doing so. By just
tapping the display when the grayline you can bring up a nearby city and what
time it is. It takes a little target practice, but I can usually bring up
just about any city I want as long as I have a good idea of it's geographical
position. Oh, by the way, if you happen to be on the internet with your
Pocket PC (mine works very well on the internet), you can tell the CityTime
program to synchronize the time and it will go to the WWV website and do that
very thing. I thought that was kind of a neat little "gee whiz" trick.

Dave W7AQK

Date: Mon, 20 Aug 2001 17:09:55 -0700 (MST)
From: cherry@getnet.net
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105304] Re: adr for Ten Tec reflector and subscriptions
Message-ID: <998352595.3b81a6d331c86@mail.getnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

The last entry is 1 August, 2001. The Ten Tec reflector has been dead since. You can see I posted that same day. I tried to sign back on the list since I got dropped and I was refused.
Jim FitzSimons W7ANF

Quoting Stuart Rohre <rohrer@arlut.utexas.edu>:

> Several have recently asked for this, this came from a post to that
> reflector, today Monday 20 Aug.:
> TenTec mailing list
> TenTec@contesting.com
> <http://lists.contesting.com/mailman/listinfo/tentec>
>
> Hope this helps,
> Stuart K5KVH

Date: Mon, 20 Aug 2001 20:13:41 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [105305] K0EVZ going to Ukraine
Message-ID: <200108202014_MC3-DD1A-DDD0@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
 charset=ISO-8859-1
Content-Disposition: inline

Gang:

Well it's less than 24 hours until ole K0EVZ will be heading to Ukraine for
or
two weeks. Am leading a church group over to the western side, near Lviv
and Ternopil. One of our main priorities is to assist the agriculturists
with natural farming, especially as it relates to combatting the annual
battle with the Colorado Beetle. =

But I digress :-). Anyway, I will completely miss the remaining FOX Hunts
S
and Cub FOX Hunts this summer. Will also miss the next Spartan Sprint. =

I'm hoping to visit with some Ukrainian hams to at least listen to the bands. I may even be able to take along an SST-20 for listening, but we'll see. Sure would be a kick to hear many of you on the air. If I do=

,
I will for-sure send SWL's to everyone I hear.

As part of preparation for the trip, I will be dropping off several reflectors for a time, chiefly QRP-L. See you again soon.

GL and 73 to everyone,
--Doc/K0EVZ

Date: Mon, 20 Aug 2001 17:21:18 -0700
From: "Dave Fifield" <dave@redhotradio.com>
To: <pwomble1@tampabay.rr.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105306] Re: Costco "Atomic" clock
Message-ID: <003101c129d7\$39ce1880\$0200a8c0@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If they really are on 433MHz, shouldn't the ARRL get the FCC involved and have them withdrawn from the market, quickly!?
Ed Hare, are you reading this?

Dave F.
AD6A

----- Original Message -----
From: "Paul Womble" <pwomble1@tampabay.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, August 20, 2001 1:45 PM
Subject: Re: Costco "Atomic" clock

> I looked at the clocks sold at our local Sam's Club. The remote unit
> operates on 433 MHz. If you do any weak signal work
> on 70cm...it may cause some problems.
>
> I didn't buy the clock for that reason.
>
> Paul K4FB

Date: Mon, 20 Aug 2001 19:18:46 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Karl F. Larsen" <k5di@zianet.com>
Cc: <qrp-1@Lehigh.EDU>
Subject: [105307] Altoids and other tins
Message-ID: <033901c129d6\$d7bad390\$4e100a0a@rohredt2000>

Karl and the group,
Now you can get several brands of tins in Walgreens Drug stores besides
Altoids in a couple of sizes! They have a small tin of hot Walgreens mints.
There are other brands now as well. Lots of rig possibilities.
72,
Stuart K5KVH

Date: Mon, 20 Aug 2001 19:25:30 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <ARDUJENSKI@aol.com>
Cc: <qrp-1@Lehigh.EDU>
Subject: [105308] Re: 75 vs. 50 in G5RV coax version --how to join coax and ladder
line
Message-ID: <034101c129d7\$c8b1af80\$4e100a0a@rohredt2000>

I try to strain relieve the junction of the two. I run the coax up over the
next web of ladder line, and back down, taping it to the web of plastic
between the parallel wires. Then I over tape all the soldered splices with
wide vinyl tape, and finish off with Scotch 33 plus electricians tape for
durability. Get the wide black vinyl tape very flat to get lots of area
glued to the web of ladder line, and /or twin lead. Still, after 5 years,
wind tore the coax off the junction, and I need to get up there and redo it
now. But no antenna lasts much more than a few years without some TLC! Oh,
get one of those electric fence insulator spring things for gates from Home
Depot, and use it as spring relief to the ladder line coax sway in wind, if
you tie off to a tree! Or even to a pole, that is what I am going to do
next.
73 and GL,
Stuart K5KVH

Date: Mon, 20 Aug 2001 19:31:54 -0500
From: "Rob Matherly" <kc0bom@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [105309] Re: Altoids and other tins
Message-ID: <011f01c129d8\$b1399420\$a211a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all;

Am I the only person here who likes Altoids cases, but can't stand the taste of mint? Ugh. :-)

72/73
Rob, kc0bom

----- Original Message -----

From: Stuart Rohre <rohre@arlut.utexas.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, August 20, 2001 7:18 PM
Subject: Altoids and other tins

> Karl and the group,
> Now you can get several brands of tins in Walgreens Drug stores besides
> Altoids in a couple of sizes! They have a small tin of hot Walgreens
mints.
> There are other brands now as well. Lots of rig possibilities.
> 72,
> Stuart K5KVH
>

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Mon, 20 Aug 2001 20:37:20 -0400
From: "Mike Yetzko" <myetsko@insydesw.com>
To: <kc0bom@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [105310] Re: Altoids and other tins
Message-ID: <00c901c129d9\$7fdb3900\$0600a8c0@dad>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I didn't like them at first. But after going through my first tin just for the tin, I found all the others really bland. Maybe an acquired taste?

In any case, I had to buy them, just for the cases. Then for the 'mini' cases. And if they come up with a new size???

Oh oh!

Mike

----- Original Message -----
From: Rob Matherly <kc0bom@yahoo.com>

> Am I the only person here who likes Altoids cases, but can't stand the
taste
> of mint? Ugh. :-)
>
> 72/73
> Rob, kc0bom

Date: Mon, 20 Aug 2001 20:41:18 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105311] K1 HELP
Message-ID: <00f801c129d9\$fe8ed4a0\$e2df1b41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

anybody know where C70 is on the main board of the K1?

-Diz, W8DIZ

Date: Mon, 20 Aug 2001 20:42:11 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105312] Re: K1 HELP
Message-ID: <00ff01c129da\$1dacae70\$e2df1b41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

never mind - :)

----- Original Message -----

From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, August 20, 2001 8:41 PM
Subject: K1 HELP

> anybody know where C70 is on the main board of the K1?
>
> -Diz, W8DIZ
>

Date: Mon, 20 Aug 2001 19:47:44 -0500
From: "Rob Matherly" <kc0bom@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105313] Re: Altoids and other tins
Message-ID: <014401c129da\$e501e300\$a211a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Did they quit putting Sucrets (sp?) in metal cases? I didn't mind the taste of those!

72/73
Rob, kc0bom

----- Original Message -----

From: Mike Yettsko <myetsko@insydesw.com>
To: <kc0bom@yahoo.com>; Low Power Amateur Radio Discussion
<qrp-l@Lehigh.EDU>

Sent: Monday, August 20, 2001 7:37 PM
Subject: Re: Altoids and other tins

> I didn't like them at first. But after going through my
> first tin just for the tin, I found all the others really
> bland. Maybe an acquired taste?
>
> In any case, I had to buy them, just for the cases. Then for the 'mini'
> cases. And if they come up with a new
> size???

>
> Oh oh!

>
> Mike

>
> ----- Original Message -----
> From: Rob Matherly <kc0bom@yahoo.com>
>
>
> > Am I the only person here who likes Altoids cases, but can't stand the
> taste
> > of mint? Ugh. :-)
> >
> > 72/73
> > Rob, kc0bom
>

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Mon, 20 Aug 2001 17:53:29 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: myetsko@insydesw.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105314] Re: Altoids and other tins
Message-ID: <3B81B109.9140147F@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike Yetsko wrote:

>
> I didn't like them at first. But after going through my
> first tin just for the tin, I found all the others really
> bland. Maybe an acquired taste?
>

I like cinnamon altoids .. and I have some other folks here who can
always be counted on to empty all Altoids housings I buy!

Phil

Date: Mon, 20 Aug 2001 18:53:25 -0600
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>
To: <w8diz@fpqrp.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105315] Re: K1 HELP
Message-ID: <009b01c129db\$afbe1050\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thankfully Elecraft posts PDF versions of their manuals. Searching for
a component call-out within the PDF will highlight it on the
schematic. But you knew that! ;-)

73, Rod N0RC
Ft Collins, CO

----- Original Message -----
From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, August 20, 2001 6:41 PM
Subject: K1 HELP

> anybody know where C70 is on the main board of the K1?
>
> -Diz, W8DIZ
>

Date: Mon, 20 Aug 2001 17:55:59 -0700
From: Phil Wheeler <w7ox@earthlink.net>

To: QRP List <qrp-l@lehigh.edu>
Subject: [105316] New Challenge
Message-ID: <3B81B19F.A8AEFAEF@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

With all this discussion of Altoids times, I was thinking of a new challenge.

Build a rig in a bottle, kinda like the ship-in-a-bottle trick.

Lousy shielding, though. And likely it's been done, already!

Phil

Date: Mon, 20 Aug 2001 21:30:03 -0400
From: tjmc <tjmc@erols.com>
To: w8diz@fpqrp.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [105317] Re: K1 HELP
Message-ID: <3B81B99B.8C58DF0A@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> anybody know where C70 is on the main board of the K1?
>
Diz and group...

A neat trick for the Elecraft PDF files of the board (and others with PDF pcb) is to use the Find Command with the circuit on the screen.... it will located FB.

best
Tom aa2vk

Date: Mon, 20 Aug 2001 21:12:13 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <w7ox@earthlink.net>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105318] Re: New Challenge
Message-ID: <012201c129de\$5d6a2340\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OK, build it in a beer can!

The big Fosters! Oops, sorry, qrp! The little 7oz
cans of Schlitz Malt Liquor!

Mike

----- Original Message -----
From: Phil Wheeler <w7ox@earthlink.net>

> With all this discussion of Altoids tins, I was thinking of a new
> challenge.
>
> Build a rig in a bottle, kinda like the ship-in-a-bottle trick.
>
> Lousy shielding, though. And likely it's been done, already!
>
> Phil

Date: Mon, 20 Aug 2001 19:16:55 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Dave Fifield <dave@redhotradio.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105319] Re: Got one - distance calculator
Message-ID: <Pine.LNX.4.33.0108201914360.2611-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks Dave! I too d/l the palm version and will read the .doc on how to
load it. I got the source code as well. That will be interesting to me. I
have a Palm 5 and hope it has enough ram ... hi

On Mon, 20 Aug 2001, Dave Fifield wrote:

> Here's a real neat distance calculator (uses either
> either Grid locator or lat/long) for the Palm Pilot
> written by Rex Allers, KK6MK. In addition to
> distance, it gives you bearing info. It's an excellent
> piece of work. I used this at the weekend for the

> 10GHz Cumulative contest (in which I was a
> QRP entry with my FT-817 driving a transverter
> with 280mW out to 3' dish).
>
> http://www.dnai.com/~rexa/Projects/gl_dist.html
>
> Cheers es 72,
> Dave F
> AD6A
>
> P.S. Where were all you East coasters this weekend?
> Didn't hear a peep from any of you on 10GHz..... ;-)
>
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Mon, 20 Aug 2001 18:26:54 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: myetsko@insydesw.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105320] Re: New Challenge
Message-ID: <3B81B8DE.2F9261C7@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike Yetsko wrote:

>
> OK, build it in a beer can!
>
> The big Fosters! Oops, sorry, qrp! The little 7oz
> cans of Schlitz Malt Liquor!
>

Or maybe in one of the old metal 6L6 enclosures

Phil

Date: Mon, 20 Aug 2001 20:29:16 -0500
From: Dan & Teena Case <dtcase@pcpartner.net>
To: "'qrp-l@Lehigh.edu'" <qrp-l@Lehigh.edu>
Subject: [105321] SW-40+ Help
Message-ID: <01C129B6.E11AC820@huxley3-83modem.pcpartner.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

Greetings:

I constructed a SW-40+ several months ago. The radio works great and =
I've had a ball using it, but I have an annoying problem with the CW =
sidetone audio. As soon as I unkey, the sidetone has a very loud chirp. =
It's loud enough that I can't wear the headphones when I'm sending CW. =
It isn't heard on the air when transmitting - it's just the CW sidetone. =
Any suggestions as to what could be causing this?

Thanks,

Dan KB0JUL
Slater, Iowa

Date: Mon, 20 Aug 2001 21:02:44 -0500
From: "Craig W. Behrens" <craigwb@hiwaay.net>
To: "QRP-L QRP-L" <qrp-l@Lehigh.EDU>
Subject: [105322] [105200] Re: [fpqrp] Huntsville Hamfest
Message-ID: <LPBBIKBNB00LHAAJAHJGMEFOCJAA.craigwb@hiwaay.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

(Note: The following report is objective since I am a proud member of both clubs.)

Concerning the Mystery Brown Bag Construction Contest (Flying Pigs vs. North Georgia QRP Club show down) at the Monte Sano camp-out in Huntsville:

- * A truck load of Flying Pigs were not able to make it down for this event.
- * One of Diz's team members had to leave early taking him from 5 to 4.
- * And how did the NoGa guys manage to mysteriously "hire" 2 or 3 consultants

in addition to their 5 core members???

To NoGa's credit, they did manage to make a QSO on the bizarre but stangely beautiful, compromise antenna they built. And...they did have one heck of a Marketer in their ranks too. (I wonder how they made that QSO when the SWR was waaaaay above 5:1???)

I must also offer that the Flying Pigs solution was very creative and artistic. It was reported that the Pigs were able to make their aliens glow, but apparently the aliens were mistakenly wired in backwards to act like a black hole to RF rather than as a mojo emitter.

Although Eric Swartz, our judge, awarded 1st place to the NoGa team, he also stated that "the Flying Pigs won, hands down, the antenna dis-array award."

Now...next year, the NoGa guys might be harder pressed, since I heard Diz mumble something about 300+ Flying Pigs invading Huntsville.

So, in case this contest wasn't enough of a challenge--we have the next (1-hour) Mystery Brown Bag Construction Contest defined and in the implementation stage. And it's a doozie! (Don't even try, you'll never guess what Greg Buchwald--K9QI and I (the Motorola Semiconductor guys) have in mind.

In short, we had some outrageous fun and plan to do it again next year!

72/73 & DX,
Craig W. Behrens--NM4T
Madison, AL

Date: Mon, 20 Aug 2001 22:17:17 -0400
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: qrp-l@lehigh.edu
Subject: [105323] (Fwd) Re: Tune Switch for IC-718
Message-ID: <3B818C6D.28501.53371E@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

The rig doesn't do full power on AM. No FM.

Hey...I was jsut trying to tell y'all about a cheap and easy solution to a problem that was a causing me a pain in the derriere.

Henry

On 19 Aug 2001, at 16:33, George, W5YR wrote:

> If the rig does AM or FM, just switch to that mode and key up. Such rigs
> haven't had tune switches in years that I can remember.

>

> 72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

> Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

> Amateur Radio W5YR, in the 55th year and it just keeps getting better!

> Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

>

>

> Henry Freedenberg wrote:

> >

> > Near as I can tell, Icom forgot to include a tune switch on the 718

> > (my mobile rig..also capable of running qrp). If you want to switch

> > the carrier on, you need to hook up a j38 or equivalent and short

> > out the contacts.

>

Date: Mon, 20 Aug 2001 20:24:34 -0600

From: "Mike Mellinger WA0SXV" <wa0sxv@mellinger.com>

To: <qrp-l@lehigh.edu>

Subject: [105324] Re: (Fwd) Re: Tune Switch for IC-718

Message-ID: <00c401c129e8\$6b0907f0\$012b16c6@mellinger.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Try using FSK mode.

----- Original Message -----

From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Monday, August 20, 2001 20:17

Subject: (Fwd) Re: Tune Switch for IC-718

>

> The rig doesn't do full power on AM. No FM.

>

> Hey...I was jsut trying to tell y'all about a cheap and easy solution

> to a problem that was a causing me a pain in the derriere.

>
> Henry
>
> On 19 Aug 2001, at 16:33, George, W5YR wrote:
>
> > If the rig does AM or FM, just switch to that mode and key up. Such rigs
> > haven't had tune switches in years that I can remember.
> >
> > 72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
> > Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
> > Amateur Radio W5YR, in the 55th year and it just keeps getting better!
> > Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437
> >
> >
> > Henry Freedenberg wrote:
> > >
> > > Near as I can tell, Icom forgot to include a tune switch on the 718
> > > (my mobile rig..also capable of running qrp). If you want to switch
> > > the carrier on, you need to hook up a j38 or equivalent and short
> > > out the contacts.
> >
>
>
>

Date: Mon, 20 Aug 2001 22:28:40 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu, nwq-l@scn.org
Subject: [105325] Extension Ladder Article--Thanks
Message-ID: <ac.1992b303.28b32158@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I want to thank all thsoe who graciously responced regarding the HAM RADIO
article--73s Alan KB7MBI

Date: Mon, 20 Aug 2001 20:21:06 -0700
From: "DTX" <dtx@wood.tzo.com>
To: <qrp-l@lehigh.edu>
Cc: <w7ox@earthlink.net>
Subject: [105326] Re: New Challenge
Message-ID: <00e701c129f0\$50d4d5a0\$0c00a8c0@home>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmmm. Am I the only one in the group who looked at the recent "New America Online 6.0" as I was throwing it away, wondering why is it so thick? I'll be darned, it's a little metal case about 4.8 by 5.4 and .4 thick. If we was to throw away this useless piece of plastic inside maybe a bunch of surface mount things could go in there. Or maybe some super glue and a bunch of dead bug parts on that piece of plastic. Got to be something for it. Just can't make myself throw away a cute little metal case like that.

Gary, WA6DTX
----- Original Message -----
From: "Phil Wheeler" <w7ox@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, August 20, 2001 5:55 PM
Subject: New Challenge

> With all this discussion of Altoids tins, I was thinking of a new
> challenge.
>
> Build a rig in a bottle, kinda like the ship-in-a-bottle trick.
>
> Lousy shielding, though. And likely it's been done, already!
>
> Phil

Date: Mon, 20 Aug 2001 20:26:01 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: DTX <dtx@wood.tzo.com>
Cc: qrp-l@Lehigh.EDU
Subject: [105327] Re: New Challenge
Message-ID: <3B81D4C9.2627290C@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

DTX wrote:

>

> Hmmm. Am I the only one in the group who looked at the recent "New America
> Online 6.0" as I was throwing it away, wondering why is it so thick? I'll
> be darned, it's a little metal case about 4.8 by 5.4 and .4 thick. If we
> was to throw away this useless piece of plastic inside maybe a bunch of
> surface mount things could go in there. Or maybe some super glue and and a
> bunch of dead bug parts on that piece of plastic. Got to be something for
> it. Just can't make myself throw away a cute little metal case like that.
>

Ahh .. that's whey the AOL thing that came with my new (Sat) laptop is
so thick. Funny thing is it was apparently pre-installed, too .. but no
more!

I'll definitely check that case out. Maybe AOL has found a viable
product :-;

73, Phil

Date: Mon, 20 Aug 2001 22:33:38 -0500
From: "George, W5YR" <w5yr@att.net>
To: henryf@quartz.gly.fsu.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105328] Re: (Fwd) Re: Tune Switch for IC-718
Message-ID: <3B81D692.2E5798DA@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I was just suggesting an even simpler solution: turn the mode switch.

Re reduced power on AM, do you need full power to tune up the antenna or
whatever?

Sorry we got our wires crossed somewhere . . .

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Henry Freedenberg wrote:

>
> The rig doesn't do full power on AM. No FM.
>
> Hey...I was jsut trying to tell y'all about a cheap and easy solution

> to a problem that was a causing me a pain in the derriere.

Date: Tue, 21 Aug 2001 00:04:16 -0400
From: David Sarraf <david.sarraf@paonline.com>
To: anthony@pacinfosb.com, qrp-1@lehigh.edu
Subject: [105329] grid-leak bias
Message-ID: <3B81DDC0.A78F7FE7@paonline.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anthony:

Grid leak bias is developed from electrons impinging on the grid. The grid we are discussing is G1 or the control grid. It is a helix of 1 of wire which is slightly larger than the cathode or filament. Its function is to modulate the electron current flowing from the cathode to the plate.

In receiving tubes the grid is almost always negatively biased with respect to the cathode. The usual way to achieve this is with a resistor in series with the cathode. The current through the tube produces a voltage drop across that resistor which raises the cathode a few volts off ground. The grid is returned to ground through a resistor. Since almost no current flows through that resistor the grid stays at just about ground potential. Since the cathode is a few volts off ground the grid is negative with respect to the cathode. The cathode resistor is bypassed with a large capacitor to keep the cathode voltage stable. The RC time constant of the cathode resistor and cap determine the lowest frequency that can be amplified by the circuit.

Grid leak bias relies on the fact that the grid is not perfectly transparent and some electrons do stick to the grid, and that the vacuum in the tube is an excellent insulator. If the grid were not connected to anything it would eventually build up a high negative potential. Although the current, or rate of charge buildup, is very slight, the grid potential will eventually become so large that current (electrons) will no longer flow from the cathode to the plate. If you ground the cathode and return the grid to ground through a high-value resistor the grid stays at a more useful negative potential. The trick is to pick a resistor which is matched to the rate of electron buildup. The resulting value is usually quite high, a few megohms or more. In other words the buildup of charge on the grid is balanced by the flow through the grid leak, or current return resistor.

Grid leak is a rather old technique which dates back to the 1920s. I can see no technical advantage to it other than reduced component count. I suspect that it would not produce a repeatible bias point as tubes are changed out. The high value resistor is likely to be noisy, however noise from the tube itself may swamp out the contribution from the resistor.

Some transmitting tubes operate at zero bias. Examples include the Eimac 3-500Z and similar tubes. The major difference between them and the receiving-type tubes is that receiving tubes operate at negative bias and draw essentially no grid current while the transmitting tubes will draw substantial amounts of grid current and input power. We have an induction heater (455 kc transmitter) that uses one tube to develop 25 kW of output. You adjust the amount of feedback such that the grid current is about 1/10 of the plate current. They do have a cathode resistor, so that when the tube is not oscillating the grid runs at negative bias. When the tube is oscillating and developing output power the feedback overcomes the cathode resistor voltage such that the grid runs at zero volts bias. In sharp contrast with receiving tubes, the grid of these tubes is quite rugged and is designed to accomodate the current flow, power dissipation, and the resulting mechanical loadings (this includes both reaction forces from the electrons and motion induced by the oscillatory change in current and magnetic field).

If you still have questions don't hesitate to ask.

Dave Sarraf

Date: Mon, 20 Aug 2001 21:50:45 -0700 (PDT)
From: Jeff Furman <jfurman@ocs.net>
To: dpayton@fwi.com, qrp-1@lehigh.edu
Subject: [105330] Re: Lifesaver Cores
Message-ID: <Pine.LNX.4.21.0108202142110.4780-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just remembered that Micrometals www.micrometals.com , the usual supplier of iron powder cores, has phenolic cores in various torroid sizes. They call the phenolic material -0 probably to denote its neutral permeability. This would allow the core to remain supporting the coil. The thermal and humidity mechanical properties might require some investigation regarding the resulting coil inductance, however.
73, Jeff Furman AD6MX

--

Date: Mon, 20 Aug 2001 21:53:58 -0700
From: Bob Nielsen <nielsen@oz.net>
To: "Wilford D. Lindsey" <70511.3041@compuserve.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105331] Re: K0EVZ going to Ukraine
Message-ID: <20010820215358.F25276@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Mon, Aug 20, 2001 at 08:13:41PM -0400, Wilford D. Lindsey wrote:

> Gang:
>
> Well it's less than 24 hours until ole K0EVZ will be heading to Ukraine for
> two weeks. Am leading a church group over to the western side, near Lviv
> and Ternopil. One of our main priorities is to assist the agriculturists
> with natural farming, especially as it relates to combatting the annual
> battle with the Colorado Beetle.
>
> But I digress :-). Anyway, I will completely miss the remaining FOX Hunts
> and Cub FOX Hunts this summer. Will also miss the next Spartan Sprint.
> I'm hoping to visit with some Ukrainian hams to at least listen to the
> bands. I may even be able to take along an SST-20 for listening, but
> we'll see. Sure would be a kick to hear many of you on the air. If I do,
> I will for-sure send SWL's to everyone I hear.
>
> As part of preparation for the trip, I will be dropping off several
> reflectors for a time, chiefly QRP-L. See you again soon.

Hey Doc,

Ukraine is part of CEPT, so you can transmit as UR/K0EVZ and hopefully
bag some fox pelts. See the ARRL web site, especially the link which
gives you an FCC form verifying that the U.S. is a participant in CEPT.

<http://www.arrl.org/FandES/field/regulations/io/cept-info.html>
<http://www.arrl.org/FandES/field/regulations/io/cept-list.html>

72/73,

Bob, N7XY

Date: Mon, 20 Aug 2001 22:02:50 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: nielsen@oz.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105332] Re: K0EVZ going to Ukraine
Message-ID: <3B81EB7A.2EB1E424@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob Nielsen wrote:

>
> On Mon, Aug 20, 2001 at 08:13:41PM -0400, Wilford D. Lindsey wrote:
> > Gang:
> >
> > Well it's less than 24 hours until ole K0EVZ will be heading to Ukraine for
> > two weeks. Am leading a church group over to the western side, near Lviv
> > and Ternopil. One of our main priorities is to assist the agriculturists
> > with natural farming, especially as it relates to combatting the annual
> > battle with the Colorado Beetle.
> >
> Ukraine is part of CEPT, so you can transmit as UR/K0EVZ and hopefully
> bag some fox pelts. See the ARRL web site, especially the link which
> gives you an FCC form verifying that the U.S. is a participant in CEPT.
>

What I'm wondering is how those Colorado beetles are getting to the
Ukraine :-;

But he should be careful talking about bagging fox pelts there; they may
take him literally!

Phil

Phil

Date: Mon, 20 Aug 2001 22:04:01 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [105333] SST Thirty - Foto Finish
Message-ID: <F259P5kuGa2TXeUa13L0000bd88@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

To those following my SST project, I've followed up the original webpage with some final photos:

<http://www.teleport.com/~cqdx/sst.htm>

73 John K7FD

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Tue, 21 Aug 2001 07:03:08 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [105334] RE Berring and distance
Message-ID: <20010821.070319.-156337.1.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

>WinAPRS< @ ><http://aprs.rutgers.edu><
thanks to KB2ICT is another and
free for ham radio use that yields
berring, disatance, grid square, and long/lat
with one point click and drag of mouse between any two points.

Many maps available for download too.

John
N3AAZ
FM 19 xa

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Tue, 21 Aug 2001 05:40:13 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>
To: "Wilford D. Lindsey" <70511.3041@compuserve.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105335] Re: K0EVZ going to Ukraine
Message-ID: <Pine.LNX.4.33.0108210536380.1305-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Be careful Doc. It's only exactly 10 years since the Russian people stood down the Soviet radicals in Moscow. Have fun squishing beetles. I wonder if the Colorado Bettle was a CIA plot?

On Mon, 20 Aug 2001, Wilford D. Lindsey wrote:

> Gang:
>
> Well it's less than 24 hours until ole K0EVZ will be heading to Ukraine for
> two weeks. Am leading a church group over to the western side, near Lviv
> and Ternopil. One of our main priorities is to assist the agriculturists
> with natural farming, especially as it relates to combatting the annual
> battle with the Colorado Beetle.
>
> But I digress :-). Anyway, I will completely miss the remaining FOX Hunts
> and Cub FOX Hunts this summer. Will also miss the next Spartan Sprint.
> I'm hoping to visit with some Ukrainian hams to at least listen to the
> bands. I may even be able to take along an SST-20 for listening, but
> we'll see. Sure would be a kick to hear many of you on the air. If I do,
> I will for-sure send SWL's to everyone I hear.
>
> As part of preparation for the trip, I will be dropping off several
> reflectors for a time, chiefly QRP-L. See you again soon.
>
> GL and 73 to everyone,
> --Doc/K0EVZ
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 21 Aug 2001 07:59:07 -0400
From: "Brian" <brian@iquest.net>

To: "Michael Hall" <wb8icn@amexol.net>, "w8diz" <w8diz@fpqrp.com>, <fpqrp-1@mpna.com>, "QRP-L" <qrp-1@Lehigh.EDU>
Subject: [105336] Re: [fpqrp] Huntsville Hamfest [Brown-Bag Contest]
Message-ID: <006601c12a38\$aeb2c090\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ok gang...at FDIIM we'll have contest LIKE the brown bag deal...'cept....

In this contest you have to build something that works out of nothing but the junk Phil has in the trunk of his car!

----- Original Message -----

From: "Michael Hall" <wb8icn@amexol.net>
To: "w8diz" <w8diz@fpqrp.com>; <fpqrp-1@mpna.com>; "QRP-L" <qrp-1@Lehigh.EDU>
Sent: Tuesday, August 21, 2001 7:34 AM
Subject: Re: [fpqrp] Huntsville Hamfest [Brown-Bag Contest]

> Sounds like a rigged deal to me!!!!

>

> Those southern piggies didn't come up with the contest did they...and
> bringing in their own judge sure makes it sound funny. I think we should
> demand a recount...but don't get anyone from Florida to do the
> counting-sorry Mac!!!

>

>

> -----Original Message-----

> From: w8diz <w8diz@fpqrp.com>
> To: fpqrp-1@mpna.com <fpqrp-1@mpna.com>; QRP-L <qrp-1@Lehigh.EDU>
> Date: Monday, August 20, 2001 2:34 PM
> Subject: [fpqrp] Huntsville Hamfest [Brown-Bag Contest]

>

>

> >One of the fun events at the Huntsville camsite was the "Brown Bag Contest"

> >between 5 members each of the NOGA club and the Flying Pigs.

> >The objective was to design, build, operate AND market a 40 meter antenna
> >built from an array of miscellaneous items in a brown bag.

> >

> >Include were 8 plastic "whiffle ball type" golf balls,

> >a handfull of glow-in-the-dark alien creatures,

> >18 feet of highly weathered RG-213,

> >16 feet of green hookup wire,
> >16 feet of 450 ohm twin lead,
> >a whirley thingie that rotates in the wind,
> >a 100 foot long slinkie,
> >small roll of electrical tape
> >
> >Our group, the FP's consisted of AA8VS Chuck, NV4T Bill, me W8DIZ and 2
> other
> >fellows
> >that were actually NOGA spies.
> >We designed the antenna as a team and decided it should be of a
horizontal
> >dipole configuration.
> >All of the above parts were used in the design; of great significance was
> using
> >the golf balls as markers for low flying planes, making the antenna an
FAA
> >approved device. Also, we used the glow-in-the-dark creatures to mark the
> ends
> >of the antenna, creating instant acceptance from the OSHA crowd. The
> Slinkie was
> >used both to decouple any RF from the coax line and also at the ends of
the
> >dipole to cause the antenna to be taught between supporting structures.
> Once we
> >got the antenna up, it was time for a QSO. We called CQ over and over...
> Every
> >time we listened, we hear EXTREME SSB interference from a camper nearby
> (was
> >this deliberate?) To no avail, we were unsuccessful in getting a QSO
going
> as
> >it was now time to chow down on some great "Jack Daniels" ribs.
> >
> >We later learned that solar conditions caused extreme vertical
polarization
> of
> >the ionospheric bandpass, putting our horizontal antenna at a evere
> disadvantage.
> >Next time, we'll build the antenna using a virtual helical design to
> accomodate
> >either horizontal and vertical modes of propagation. And yes - the NOGA
> group
> >build a vertical antgenna.
> >
> >Oh, and the judge for the competition...none other than the infamous Eric
> >Schwartz from Elecraft,
> >whose entire trip was sponsored by NOGA. We're not sure why, but Eric

> awarded
> >1st place in the competition to the NOGA group; something about actually
> making a
> >QSO using the antenna.
> >
> >I figure all was not lost however, as we at least came in second place.
> >
> >Disclaimer: All of the above statements above are "believed" to be true
and
> >accurate.
> >
> >72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
> >Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W
> >SOC-8 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 10X-9389 CATT-26
> >FP#-1 <http://home.cinci.rr.com/w8diz> & <http://kitsandparts.com>
> >
> >
> >-To unsubscribe, mail to majordomo@fpqrp.com, msg: unsubscribe fpqrp-l -
> >
>
> -To unsubscribe, mail to majordomo@fpqrp.com, msg: unsubscribe fpqrp-l -
>

Date: Tue, 21 Aug 2001 13:06:03 +0100
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: neqrp@jonal.net, qrp-l@Lehigh.EDU
Subject: [105337] NEQRP SSB NET meets TONITE, Tuesday at 7:30PMEDST 7.285 +-5MZ
Message-ID: <0F41878247.7F8B799C-0N85256AA9.0047418E@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Last week was not so great band conditions with
check-ins:

K1CL CHUCK
WB1HBE John
KC1FB Jim
KG4FGC Ken - relay by K1CL

After the net K1CL connected with the following copied by myself:

W3RL Larry
AE5X John
WY1W Butch

Beat the bush's and get the listeners to press the PTT button.

Ron - N1ZSW net control

Date: Tue, 21 Aug 2001 08:15:01 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: Mike Yetsko <myetsko@insydesw.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105338] Re: New Challenge
Message-ID: <XFMail.20010821081501.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

I am sure I speak for other members of the FPQRP club, in volunteering to provide said enclosures for the QRP community.

All you have to do is send us the full cans. We will empty them and return them, absolutely free!

Thanks are not really needed. This is our way of contributing to QRP.

John W2AGN

On 21-Aug-2001 Mike Yetsko wrote:
> OK, build it in a beer can!
>
> The big Fosters! Oops, sorry, qrp! The little 7oz
> cans of Schlitz Malt Liquor!
>
> Mike

Date: Tue, 21 Aug 2001 13:12:32 +0100
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: neqrp@jonal.net, qrp-l@Lehigh.EDU
Subject: [105339] NEQRP SSB NET
Message-ID: <0F60DF1186.A1445601-0N85256AA1.0042E181@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

The results of the start time survey was divided so the start time will remain at 7:30PM EDT.

However tonight I will be calling CQ NEQRP for QSO's at 9:30PM at 7.240 +- 3MHZ. If you want to give it a try join in. I want to see how many are still up and what band condx's are on 40 at that time.

I've listened around 7.285Mhz at 9:30PM and there is a lot of activity thats why I will try it lower.

Please feel free to comment to me about time and freq.

Ron - N1ZSW

Date: Tue, 21 Aug 2001 00:01:08 -0400
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: North Georgia QRP Club <nogaqrp@qth.net>, qrp-1@Lehigh.EDU
Cc: fpqrp-1@mpna.com
Subject: [105340] TDIA Brown Bag Mystery Construction Competition write up on NOGA QRP page
Message-ID: <5.0.2.1.2.20010820235737.02146110@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Thanks and kudos to Pickett, AD4S, for the great write up, and equally, if not better Marketing Presentation Saturday night. It WAS the Marketing Presentation, that won, not the K1, right?

<http://www.nogaqrp.org>

72 de Mike, K04WX (defrocked/dewinged FP#298)
Michael C. Boatright

Date: Tue, 21 Aug 2001 07:38:48 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'dave@redhotradio.com'" <dave@redhotradio.com>, Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [105341] RE: Costco "Atomic" clock
Message-ID: <E78D8A9D6762D411B5440008C791D4AA04A49E03@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"

I believe, Dave, it's a case of actually *being able* to operate in the 433 MHz frequency area, but the manufacturer HAS to be willing (and able) to accept interference TO his device(s) from other legally licensed r.f. sources.

I'm not sure what you'd call this type of license - a "tertiary user"?

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: Dave Fifield [SMTP:dave@redhotradio.com]
Sent: Monday, August 20, 2001 7:21 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Costco "Atomic" clock

If they really are on 433MHz, shouldn't the ARRL get the FCC involved and have them withdrawn from the market, quickly!?
Ed Hare, are you reading this?

Dave F.
AD6A

----- Original Message -----

From: "Paul Womble" <pwomble1@tampabay.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, August 20, 2001 1:45 PM
Subject: Re: Costco "Atomic" clock

> I looked at the clocks sold at our local Sam's Club. The remote unit
> operates on 433 MHz. If you do any weak signal work
> on 70cm...it may cause some problems.
>
> I didn't buy the clock for that reason.
>
> Paul K4FB

Date: Tue, 21 Aug 2001 07:21:57 -0600
From: "Zoerb, Ron" <Zoerb.Ron@broadband.att.com>
To: "'QRP-1 Messages'" <qrp-1@lehigh.EDU>
Subject: [105342] Ten Tec Reflector is Working!
Message-ID: <BF11C300DA60D5118A2900508BCF825B657CA7@entcoexch05.tci.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset=iso-8859-1
Content-Transfer-Encoding: 7bit

Hi all,

There are fresh postings on the Ten Tec Reflector as of today. (8-21-2001).

I don't know the situation with subscribing as I don't care to get more e-mail, same reason I have QRP-L in postpone mode. Sure do enjoy scanning the archives though.

Summer is flying by, soon there will be more radio time!

72 Ron ki0ii

Date: Tue, 21 Aug 2001 08:24:20 -0500
From: "Ron Pierce" <ni0l@indytel.com>
To: <qrp-l@Lehigh.edu>
Subject: [105343] Conversions ?
Message-ID: <000001c12a44\$9633bb80\$bd9182d0@indytel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Has anyone made up a list of components necessary to convert a Ten-Tec 1300 series QRP rig from say 40 meters to 20 meters ? My 1340 is setting on the shelf collecting dust, and thought I might use it on 20 meters.

I am new to QRP but not to Ham Radio or Electronics. Any comments would be appreciated.

Ron
NI0L

Date: Tue, 21 Aug 2001 09:20:05 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105344] Re: RBA-1 Balun
Message-ID: <1010721092008.JAB05963@gate.iterated.com>

Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/4/01 7:56 PM, Karl F. Larsen at k5di@zianet.com wrote:

>A ham has the subject balun and he wrote me that it has a red
>toroid in it. This means powdered iron which means it will NOT WORK.

What's wrong with powdered iron? Powdered iron works fine for certain types of coils for HF frequencies -- why not as a balun.

Indeed, powdered iron could be a most useful material. It has a much higher flux saturation point than ferrite, better thermal dissipation and a higher loss tangent.

Powder iron has a lower permeability, so you need a larger / more cores / more windings to get the same inductance as you get with ferrites.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Tue, 21 Aug 2001 09:20:09 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105345] Re: RBA-1 Balun
Message-ID: <1010721092010.JAC05963@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/5/01 8:06 AM, Karl F. Larsen at k5di@zianet.com wrote:

>Powdered iron cores are very lossy. In a balun they will absorb
>power and not transform the impedance properly. I tested my BA-1 with the
>standard balun test and it failed. Then I ordered a proper ferrite toroid
>form and re-wound it and it's now working just fine.

I recently received a full catalog brochure from Amidon. Your statements do not match Amidon's specifications.

To quote the brochure:

"Iron powder cores (low permeability) are superior to the Ferrite

material cores for high power inductors for this reason: fewer turns will be required by the Ferrite type core for a given inductance. ...

Either core material can be used for transformer applications, but both will require 'trade-offs'. Ferrite cores will require fewer turns and will couple better, whereas the Iron Powder cords will require more turns and not couple as well, but will tolerate more power and are more stable."

If anything, Ferrite core materials are more lossy than the Powered Iron.

I agree that a balun design that works with a ferrite core will not work with a powdered iron core. This is because the permeability of the core is very different. Either a larger core, more cores, or more turns will be required to use powdered iron instead of ferrite.

Powdered iron cores can be, and have been used successfully in many circuits, including baluns. There's nothing inherently lossy about them. Indeed, powdered iron cored inductors have a relatively high Q. Q's in excess of 100 are typical for these materials. A lossy material would not permit such Q's.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net

Quote: "Not within a thousand years will man ever fly!"

-- Wilbur Wright, 1901

Date: Tue, 21 Aug 2001 09:20:03 -0400

From: Bill Coleman <aa4lr@arrl.net>

To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [105346] Re: RBA-1 Balun

Message-ID: <1010721092005.JAA05963@gate.iterated.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

On 8/4/01 12:54 PM, Karl F. Larsen at k5di@zianet.com wrote:

> The RBA-1 Balun *MAY* be ok now. Open it up and if the toroid
> material is unpainted or just black painted then it's ok. If it's red than
> don't buy it. Those were made with powdered iron toroids and don't work
> for obvious reasons.

Ok, I give. Why would powdered iron toroids not work in a balun?

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Tue, 21 Aug 2001 08:35:26 -0700
From: "Dan Evans" <n9rla@yahoo.com>
To: <kc0bom@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105347] Re: Altoids and other tins
Message-ID: <00cb01c12a56\$e9813e40\$0101a8c0@danevans>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The last Sucrets I saw were in plastic....

Dan Evans N9RLA
Scottsburg, IN 47170
{EM78}
IN-Ham list administrator
QRP-1 #1269
1/2 of the N9RLA /R no budget Rover Team
Check out the Rover Resource Page at:
<http://www.qsl.net/n9rla>

----- Original Message -----
From: "Rob Matherly" <kc0bom@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, August 20, 2001 5:47 PM
Subject: Re: Altoids and other tins

> Did they quit putting Sucrets (sp?) in metal cases? I didn't mind the
taste

> of those!

>

> 72/73

> Rob, kc0bom

>

> ----- Original Message -----

> From: Mike Yettsko <myetsko@insydesw.com>

> To: <kc0bom@yahoo.com>; Low Power Amateur Radio Discussion

> <qrp-l@Lehigh.EDU>

> Sent: Monday, August 20, 2001 7:37 PM

> Subject: Re: Altoids and other tins
>
>
> > I didn't like them at first. But after going through my
> > first tin just for the tin, I found all the others really
> > bland. Maybe an acquired taste?
> >
> > In any case, I had to buy them, just for the cases. Then for the 'mini'
> > cases. And if they come up with a new
> > size???
> >
> > Oh oh!
> >
> > Mike
> >
> > ----- Original Message -----
> > From: Rob Matherly <kc0bom@yahoo.com>
> >
> >
> > > Am I the only person here who likes Altoids cases, but can't stand the
> > taste
> > > of mint? Ugh. :-)
> > >
> > > 72/73
> > > Rob, kc0bom
> >
>
>
>
> -----
> Do You Yahoo!?
> Get your free @yahoo.com address at <http://mail.yahoo.com>

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Tue, 21 Aug 2001 09:37:42 -0400
From: "Lee S. Mairs" <lmairs@cox.rr.com>
To: <rohre@arlut.utexas.edu>, "Low Power Amateur Radio Discussion" <qrp-
l@lehigh.edu>
Subject: [105348] Re: Altoids and other tins
Message-ID: <000d01c12a46\$741205a0\$6401a8c0@cox.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The CVS stores are also carrying a "generic" Altoids in the same tins -
cinnamon is the best!
73 de Lee, KM4YY

I believe in making the world safe for our children, but not our children's
children, because I don't think children should be having sex.
--Jack Handey, Deep Thoughts

----- Original Message -----

From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, August 20, 2001 8:18 PM
Subject: Altoids and other tins

> Karl and the group,
> Now you can get several brands of tins in Walgreens Drug stores besides
> Altoids in a couple of sizes! They have a small tin of hot Walgreens
mints.
> There are other brands now as well. Lots of rig possibilities.
> 72,
> Stuart K5KVH
>
>

Date: Tue, 21 Aug 2001 23:46:14 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: "Michael C. Boatright" <ko4wx@mindspring.com>
Cc: North Georgia QRP Club <nogaqrp@qth.net>, qrp-1@Lehigh.EDU, fpqrp-1@mpna.com
Subject: [105349] Re: [fpqrp] TDIA Brown Bag Mystery Construction Competition
write up
onNOGA QRP page
Message-ID: <3B826626.1E25B478@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

"Michael C. Boatright" wrote:

> Thanks and kudos to Pickett, AD4S, for the great write up, and equally,=
if

> not better Marketing Presentation Saturday night. It WAS the Marketing=
> Presentation, that won, not the K1, right?
>
> <http://www.nogaqrp.org>
>
> 72 de Mike, K04WX (defrocked/dewinged FP#298)
> Michael C. Boatright

Righto Mike, on this topic so far all I've got a take on is some "secret
handshake" version of what this is all 'bout (keep 'im a mushroom, he's f=
rom
OZ).

Care to give me the "offshul" NOGAQRP version?

P.S. I don't do no "off-the-record" interviews, just the plain publishabl=
e
facts fit to print in a family publication, i.e. my Newsletter.

72/73's

Ian Purdie
"I believe Australia is the best address on earth"
Budgewoi N.S.W. Australia - Co-ords S33=B014', E151=B034'
My FREE Newsletter: <http://www.electronics-tutorials.com/subscribe.htm>
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91
URL - <http://www.electronics-tutorials.com/>

Date: Tue, 21 Aug 2001 08:13:34 -0600
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105350] FS: NorCal 20 (Club Version) Unassembled.
Message-ID: <002b01c12a4b\$7746d890\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Parts bag still sealed.

\$90 Shipped CONUS

OR

If you've always wanted an NC20 but didn't want to build it. I'll build & tune it for you, with the popular mods, including 10t pot for \$120

73, Rod N0RC
Ft Collins, CO

Date: Tue, 21 Aug 2001 09:38:20 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [105351] Trade
Message-ID: <00f501c12a4e\$ed4f56e0\$620b4d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For those tired of QRP I have the answer. Just trade me your K2 for my like new SB-1000. This amp has about 15 minutes of "on the air time" and is equipped with the W3IRZ step start (QST June 1996). I would prefer the local Atlanta / South East area as I do not want to ship it.

Mike Branca W3IRZ in Conyers Georgia

Date: Tue, 21 Aug 2001 07:49:48 -0700
From: "Mike Morrell" <morrellm@ameritech.net>
To: qrp-l@lehigh.edu
Subject: [105352] Norcal 20 questions
Message-ID: <210801233.28158@webbox.com>
Mime-Version: 1.0
Content-Type: text/plain

I have sent this questions to the author of the Norcal 20 but have not yet received a reply back; decided to throw these out to the list:

1. The coaxial DC power jack was missing from my sealed bag.

Need to get a suitable substitute.

2. The pot with the detent on the rear panel fits too far into the PCB and caps C16 and C17 cannot be fitted. Question: can these 2 caps be fitted on the underside of the PCB making sure the holes are soldered through?

3. I procured a 10 t Bourns series pot called out in the notes. It is slightly longer and sits offset (to the left) of the front plate. Given the " sequence " of building with testing that AD6A mentions, I was wondering could I NOW place the 10T jumpers in the circuit BEFORE getting to that section and part 2, pads labeled LK1 to LK4 set auto vs manual in the TICK keyer. Maybe I missed it, but when are these pads jumpered? Can I do these now as well.

Regards,

Mike - K8KE

Date: Tue, 21 Aug 2001 10:53:29 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105353] RE: Costco "Atomic" clock
Message-ID: <125490A005E3D3118C9C00805FC743CC023B3727@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi, Dave,

Actually, I would have missed this one, had it not been forwarded to rfi@arrl.org. K2QAI gets those, and he forwarded it to me.

Here is a repost of the Readers Digest summary I had sent to you by private email:

These devices are FCC Certificated under Part 15 rules as "periodic emitters." The ones I have look at transmit for about 50 milliseconds every 30 seconds or so. Most operate on 433.92 MHz, a European Industrial, Scientific and Medical band. To date, I have no reports of harmful interference to Amateur communications from legal devices. One fact that is not well understood amongst amateurs is that all amateur spectrum is shared with somebody. Part 15 devices can legally operate on any amateur

frequency (and most non-amateur frequencies, too) at the various levels defined in the rules. They are unconditionally secondary to other radio services.

The whole matter then becomes one of actual harmful interference. If there is interference, the operator of the Part 15 device is required to correct the interference. Merely hearing a Part 15 signal in "our" bands, though, does not meet the standards of interference as defined in the rules. This is not necessarily a bad thing. On 70 cm, we are secondary to the government users; on 30 meters, we are secondary to commercial users. How would we feel if they said, "We can hear the hams on 'our' bands, so they gotta' get out?"

The periodic emitters are not to be confused with some of the data transmitters and video transmitters that also operate on 433 MHz. From what I have seen, these are NOT Certificate, nor could they be at the ranges the manufacturers claim.

For ARRL info on Part 15, see:

<http://www.arrl.org/tis/info/part15.html>

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----

> From: Dave Fifield [<mailto:dave@redhotradio.com>]

> Sent: Monday, August 20, 2001 8:21 PM

> To: Low Power Amateur Radio Discussion

> Subject: Re: Costco "Atomic" clock

>

>

> If they really are on 433MHz, shouldn't the ARRL get the FCC

> involved and have them withdrawn from the market, quickly!?

> Ed Hare, are you reading this?

>

> Dave F.

> AD6A

>

> ----- Original Message -----

> From: "Paul Womble" <pwomble1@tampabay.rr.com>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Monday, August 20, 2001 1:45 PM
> Subject: Re: Costco "Atomic" clock
>
>
> > I looked at the clocks sold at our local Sam's Club. The
> remote unit
> > operates on 433 MHz. If you do any weak signal work
> > on 70cm...it may cause some problems.
> >
> > I didn't buy the clock for that reason.
> >
> > Paul K4FB
>
>

Date: Tue, 21 Aug 2001 08:07:37 -0700
From: lhlousek <lhlousek@nvgbell.net>
To: aa4lr@arrl.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105354] Re: RBA-1 Balun
Message-ID: <046d01c12a53\$03c6d8e0\$650dfea9@nvgbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Amidon also sells the "Transmission Line Transformers Handbook" by Jerry Seveck which describes the construction of many baluns and ununs of various impedance transformations. All these baluns were built and tested for frequency range, power rating and loss. It's amazing how small the high power baluns are and how little the loss. With transmission line type winding the flux in the core is cancelled (to first order) and saturation isn't a problem. I think, basically, that powdered iron would work fine except that you would need many more turns which would interfere with the transmission line type winding that is optimum

Lou W7DZN

Date: Tue, 21 Aug 2001 10:18:36 -0500
From: George Franklin <w0av@juno.com>
To: w7ox@earthlink.net
Cc: qrp-1@Lehigh.EDU
Subject: [105355] Re: TX/RX in Beer Can

Message-ID: <20010821.102151.-1841709.0.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gangue,

Back in the thirties a friend of mine built a 5-meter (that was way before the 6M band arrived) one-tube superregen RX \ TX transceiver in a beer can.

He amazed the local characters at a hamfest with the lashup installed in a Buick coupe with wooden poles on his front and back bumpers with a 5-meter dipole strung between them and a twisted pair feedline down to the transceiver.

Yep, the thing actually worked! No, he didn't set any DX records. The RX squeals could be heard about as far as the TX transmitted.

72/73/74 de George/W0AV
SOC#101

Date: Tue, 21 Aug 2001 08:26:22 -0700 (MST)
From: cherry@getnet.net
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: tentec-admin@contesting.com
Subject: [105356] Fwd: Request to mailing list TenTec rejected
Message-ID: <998407582.3b827d9ec5104@mail.getnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

Jim FitzSimons W7ANF
----- Forwarded message from tentec-admin@contesting.com -----
Date: Mon, 20 Aug 2001 21:45:10 -0400
From: tentec-admin@contesting.com
Reply-To: tentec-admin@contesting.com
Subject: Request to mailing list TenTec rejected
To: cherry@getnet.net

Your request to the TenTec mailing list

Subscription request

has been rejected by the list moderator. The moderator gave the following reason for rejecting your request:

"Please provide name and callsign...yes, I know there is no place to enter it."

Any questions or comments should be directed to the list administrator at:

tentec-admin@contesting.com

----- End forwarded message -----

Date: Tue, 21 Aug 2001 10:03:10 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Bill Coleman <aa4lr@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105357] Re: RBA-1 Balun
Message-ID: <Pine.LNX.4.33.0108210957290.1697-1000000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Yes Bill powdered iron is perfect for a high impedance choke to couple 12 volts to a transistor. It's terrible as a transformer because it has so much loss. Check out some transistor circuits in any book and see what's used.

I had a nice big powdered iron job in my BA-1 4-1 balun. Built it to spec's and it passed power ok but when I did the test for balun performance it failed. Replaced it with ferrite and it was perfect.

On Tue, 21 Aug 2001, Bill Coleman wrote:

> On 8/4/01 7:56 PM, Karl F. Larsen at k5di@zianet.com wrote:
>
> >A ham has the subject balun and he wrote me that it has a red
> >toroid in it. This means powdered iron which means it will NOT WORK.
>
> What's wrong with powdered iron? Powdered iron works fine for certain
> types of coils for HF frequencies -- why not as a balun.
>
> Indeed, powdered iron could be a most useful material. It has a much
> higher flux saturation point than ferrite, better thermal dissipation and
> a higher loss tangent.
>

> Powder iron has a lower permability, so you need a larger / more cores /
> more windings to get the same inductance as you get with ferrites.

>

>

>

> Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net

> Quote: "Not within a thousand years will man ever fly!"

> -- Wilbur Wright, 1901

>

>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 21 Aug 2001 09:09:02 -0700 (MST)

From: cherry@getnet.net

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [105358] Re: RBA-1 Balun

Message-ID: <998410142.3b82879e05f2f@mail.getnet.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 8bit

The red powdered iron material is the best for lower frequencies and the yellow is better for higher frequencies. Most modern transceivers have the low pass filters made with powdered iron. Most auto-tuners use powdered iron. I have made coils with Q's as high as 250 with powdered iron. Air wound coils can have Q's of over 600, but they are large. Normally ferrite is used for very broad bandwidth transformers where loss is not a problem. There are low permeability ferrites that have high Q. You can not tell what a toroid is made of just by looking at it. Jim FitzSimons W7ANF

Quoting Bill Coleman <aa4lr@arrl.net>:

> On 8/4/01 12:54 PM, Karl F. Larsen at k5di@zianet.com wrote:

>

> > The RBA-1 Balun *MAY* be ok now. Open it up and if the toroid

> > material is unpainted or just black painted then it's ok. If it's red
> > than

> > don't buy it. Those were made with powdered iron toroids and don't

> > work

> >for obvious reasons.
>
> Ok, I give. Why would powdered iron toroids not work in a balun?
>
>
>
> Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
> Quote: "Not within a thousand years will man ever fly!"
> -- Wilbur Wright, 1901
>
>

Date: Tue, 21 Aug 2001 09:09:26 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: aa4lr@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105359] Re: RBA-1 Balun
Message-ID: <3B8287B6.D535C659@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bill,

Amidon notwithstanding, the BA-1 (powdered iron) is very inferior to the new RBA-1 (ferrite). I have one of each, both factory assembled, and I've run comparative tests. The RBA-1 is flat (1:1) from 180 thru 6 m. The BA-1 is passable at 20 and 15m but pretty bad above and below.

Not to say the Amidon catalog is wrong (I have one, too). But it could be that LDG did not put the right number of turns on the right core.

When I asked their techie, he told me that they based the new design on some work by Cebik. Good thinking!!

73, Phil W7OX

Bill Coleman wrote:

>
> On 8/5/01 8:06 AM, Karl F. Larsen at k5di@zianet.com wrote:
>
> >Powdered iron cores are very lossy. In a balun they will absorb
> >power and not transform the impedance properly. I tested my BA-1 with the
> >standard balun test and it failed. Then I ordered a proper ferrite toroid
> >form and re-wound it and it's now working just fine.
>

> I recently received a full catalog brochure from Amidon. Your statements
> do not match Amidon's specifications.
>
> To quote the brochure:
>
> "Iron powder cords (low permeability) are superior to the Ferrite
> material cores for high power inductors for this reason: fewer turns will
> be required by the Ferrite type core for a given inductance. ...
>
> Either core material can be used for transformer applications, but both
> will require 'trade-offs'. Ferrite cores will require fewer turns and
> will couple better, whereas the Iron Powder cords will require more turns
> and not couple as well, but will tolerate more power and are more stable."
>
> If anything, Ferrite core materials are more lossy than the Powdered Iron.
>
> I agree that a balun design that works with a ferrite core will not work
> with a powdered iron core. This is because the permeability of the core
> is very different. Either a larger core, more cores, or more turns will
> be required to use powdered iron instead of ferrite.
>
> Powdered iron cores can be, and have been used successfully in many
> circuits, including baluns. There's nothing inherently lossy about them.
> Indeed, powdered iron cored inductors have a relatively high Q. Q's in
> excess of 100 are typical for these materials. A lossy material would not
> permit such Q's.
>
> Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
> Quote: "Not within a thousand years will man ever fly!"
> -- Wilbur Wright, 1901

Date: Tue, 21 Aug 2001 12:19:43 -0400
From: "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [105360] SST question; TT1340 question
Message-ID: <E1F0152638DBD311AEF700D0B74455E23BFC8F@exchange_nh.allegromicro.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

I decided to start building the SST during my lunchbreak, and I'll probably finish it after work, before I head home. I started fishing through the SST mods page, but it's huge! My question is: can I use sockets on the IC's? I'd like to use 'em, just in case. It's no biggie if it's unadvisable, and I kinda suspect, since I'm building the 20m version, that that will be the case.

Second question: awhile back I left my TenTec 1340 in the car; I had used candlewax to secure the vfo torroid. Well, of course that melted and ran all over the place; but that was ok--I wanted to change freq anyhow. Well, I changed the freq range easily enough, managed to get it tuned up, but I now have a wicked (yes, I lived in Maine for a few years!) sidetone volume. I cranked the pot that controls that volume, turned it all the way as a matter of fact, but I have to put the volume control to just about zero, or be blasted away. I think the front end still needs a bit of tuning, as band noise seemed low the last time I played with it, but anybody with advice for this problem?

Thanks.

Shawn Upton, KB1CKT
Product Development Engineer - Sensors
Allegro MicroSystems, Inc
Concord, NH
603.228.5533 ext. 429

Date: Tue, 21 Aug 2001 12:22:04 -0400
From: "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [105361] SST question
Message-ID: <E1F0152638DBD311AEF700D0B74455E23BFC90@exchange_nh.allegromicro.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Oh, nevermind on the SST question--the manual states clearly not to use sockets. My bad.

Shawn Upton, KB1CKT
Product Development Engineer - Sensors
Allegro MicroSystems, Inc
Concord, NH
603.228.5533 ext. 429

Date: Tue, 21 Aug 2001 11:25:57 -0500
From: "Rob Matherly" <kc0bom@yahoo.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [105362] Re: K0EVZ going to Ukraine
Message-ID: <003501c12a5d\$f62c2d60\$2b11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Try to bag some sable pelts and see what happens... :-)

72/73

Rob, kc0bom

----- Original Message -----

From: Phil Wheeler <w7ox@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Tuesday, August 21, 2001 12:02 AM
Subject: Re: K0EVZ going to Ukraine

>
>
> Bob Nielsen wrote:
> >
> > On Mon, Aug 20, 2001 at 08:13:41PM -0400, Wilford D. Lindsey wrote:
> > > Gang:
> > >
> > > Well it's less than 24 hours until ole K0EVZ will be heading to
Ukraine for
> > > two weeks. Am leading a church group over to the western side, near
Lviv
> > > and Ternopil. One of our main priorities is to assist the
agriculturists
> > > with natural farming, especially as it relates to combatting the
annual
> > > battle with the Colorado Beetle.
> > >
> > Ukraine is part of CEPT, so you can transmit as UR/K0EVZ and hopefully
> > bag some fox pelts. See the ARRL web site, especially the link which
> > gives you an FCC form verifying that the U.S. is a participant in CEPT.
> >
>
> What I'm wondering is how those Colorado beetles are getting to the
> Ukraine :-;
>
> But he should be careful talking about bagging fox pelts there; they may

> take him literally!
>
> Phil
>
> Phil

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Tue, 21 Aug 2001 12:27:10 -0400
From: "Kwik, Ed " <ed.kwik@delphiauto.com>
To: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [105363] MI QRP Net Tuesday night at 9:00 PM Eastern Time on 3.535 MHz
Message-ID:
<9F176F70FD71AC48AFC36F879D2B84E38F35C6@tryexch01.NorthAmerica.DelphiAuto.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

We had six checkins last week. Come join the fun!

WB8ICN	599 599	JACKSON	MI MIKE
W8GI	599 599	EAST LANSING	MI DON
AA8VS	559 499	CANTON	MI CHUCK
K1CL	359 359	CHELMSFORD	MA CHUCK
WB8UUJ	449 589	FLUSHING	MI TOM MI
WA9PWP	579 479	STOUGHTON	WI PAUL MI

Ed
AB8DF

Date: Tue, 21 Aug 2001 09:44:18 -0700 (MST)
From: cherry@getnet.net
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105364] Re: RBA-1 Balun
Message-ID: <998412258.3b828fe297119@mail.getnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

What ferrite material did you replace it with?

There are hundreds of different ferrite materials.
What size was the ferrite toroid?
Jim FitzSimons W7ANF

Quoting "Karl F. Larsen" <k5di@zianet.com>:

>
> Yes Bill powdered iron is perfect for a high impedance choke to couple
> 12
> volts to a transistor. It's terrible as a transformer because it has
> so
> much loss. Check out some transistor circuits in any book and see
> what's
> used.
>
> I had a nice big powdered iron job in my BA-1 4-1 balun. Built it
> to spec's and it passed power ok but when I did the test for balun
> performance it failed. Replaced it with ferrite and it was perfect.

Date: Tue, 21 Aug 2001 10:23:57 -0700
From: Elda & Doug Wilson <ewilson@nccn.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105365] N to bnc
Message-ID: <3B82992C.1B7EA97E@nccn.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

I have four male N to female BNC connectors and one 90 degree elbow
N connector up for grabs. The price is right. You can pay for
mailing and that is all. Any takers?

--
Doug Wilson k6rpn
Grass Valley, CA

Date: Tue, 21 Aug 2001 10:45:40 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@Lehigh.EDU>
Subject: [105366] Fox--N6WG & NW7DX Thursday evening
Message-ID: <MABBJOEABOILMKCJCLFCCEDDCKAA.n6wg@earthlink.net>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's almost that time again.

Bob, N6WG, and Ben, NW7DX, will be co-hosts in the weekly FOX SHOW extravaganza. Bob operates from Newark, CA on SF Bay, and Ben operates from Redmond, WA, outside Seattle.

The show starts at 0200 UTC Friday (7 PM Thursday evening here on the left coast), so please be on time to ensure a good seat. Please orient your beams, dipoles, verticals, long (or short) wires to the west.

N6WG will operate above 14060, probably around 14061. NW7DX will probably be below 14060. Ben will announce his plans in a separate post.

Bob's exchange will be "559 CA BOB 5W". Watch for it, you might be a winner.

Remember, pelts are free, but you must be present to win. No warrantee expressed or implied, your mileage may vary. See box for details.

73 and see you in the hunt.

Bob, N6WG
The Golden Fox

Date: Tue, 21 Aug 2001 10:51:06 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "QRP-1 Forum (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [105367] Basics: Rebuilding a Volt/Ohm Meter
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F04B77308@hq-expo2.filenet.com>

Apologies in advance for the "basic" bandwidth..

I came across an old VOM in the shack whose works are, believe me, wa-a-a-a-y beyond salvage. The meter, however, is quite good, and I thought I'd rebuild the innards from scratch as a learning exercise. Yes, I know you can get a Chinese pop-out for \$19.95 and they abound at swap meets for \$5 or so, but this is, well, you know, kind of a "Junk Box Wars meets Survivor" thing.

To date, I have begun the voltmeter. I first built an FET circuit that I

found in an old ARRL "Solid State Basics" publication the basics of which were a voltage divider providing 0.5 vdc to the gate of an MPF102 that was used to drive the meter. I found that circuit wholly unsuitable -- meter drift, inaccuracies, etc. So I am opting for a dual JFET op-amp circuit that will hopefully be better. Film at 11:00.

Now that I have most of my voltmeter circuit nailed down, I want to add an ohm meter. I am supposing that you just construct a voltage divider similar to the voltmeter circuit and provide 1.5v to energize the circuit. But I wanted to see what considerations I would have to account for to avoid loading the circuit, etc.

My thanks in advance for any advice.

Also, gory details of the project available upon request.

Bill, K6WHP

Date: Tue, 21 Aug 2001 14:11:33 -0400
From: George Heron <gheron@safenet-inc.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>, "'njqrp@njqrp.org'" <njqrp@njqrp.org>
Subject: [105368] Collapsible poles from Walmart
Message-ID: <3E89A18A51CBD411BD1B0002A507C88BB4AAB2@MAX>
MIME-Version: 1.0
Content-Type: text/plain

FYI, I just picked up a bunch of "Bream and Crappie Kits" in the sporting section of Walmart, each consisting of a 36" plastic (or fiberglass) pole that extends to 10 feet, a 112-yard spool of monofilament, and a neat dual-sided multi-compartment plastic component case ... all for \$7.50.

Ostensibly this is all for fishing usage, however the astute QRP homebrewer will find delight and multiple uses for each item:

- the pole would make a great antenna extender/standoff for long wire and end-fed halfwave antennas used in portable & hotel operation;
- four of these poles with an simple "X" center joint would make a fabulous 20m "delta beam";
- the monofilament is great for launching antennas up into trees with a slingshot, bow & arrow, or plain old garden variety rock;
- the pastic case has many uses ranging from component storage on the bench to small parts & antenna adapter storage on the road.

Again, all for \$7.50.

73, George N2APB
n2apb@amsat.org

Date: Tue, 21 Aug 2001 14:09:53 EDT
From: CHARLES K BROWN <n4so@juno.com>
To: qrp-1@lehigh.edu
Subject: [105369] MP-1 Antenna ground
Message-ID: <20010821.180802.4407.7.n4so@juno.com>

Bruce Moscolini -
Some statements regarding grounding verticals is in
dispute. The old theory is that you need radials and
you must ground a vertical.

Force 12, Inc. suggests otherwise:
SIGMA 40- new technology 40 meter vertical
dipole 24 ft. tall, no radials--- Yes, I know these are
vertical dipoles.
"One of the keys to high performance verticals is to
NOT couple to the ground. The ground is not a friend
of a vertical. If a vertical has radials, they must be ele-
vated to remove them as far as possible from the influence of ground (see
abundant literature from Force
12 on vertical installation). Having a vertical removed from ground,
with the feedpoint elevated are the two keys
for high performance. The reason is that losses are mini-
mized and the feedpoint is elevated, which lowers the angle of the lobe."
>From page 1, Force 12 Inc series of Sigma verticals
force12info@fix.net
force12e@lightlink.com
Tech line 805-227-1680

Ken Brown N4S0
Mobile, AL/EM50tk
NorCal-20/5 watts/4 ele. beam

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 21 Aug 2001 11:17:29 -0700

From: Jeff Stai WK6I <jstai@home.com>
To: gheron@safenet-inc.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105370] Re: Collapsible poles from Walmart
Message-ID: <5.1.0.14.2.20010821111639.09ae4870@mail>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:11 AM 8/21/01, George Heron wrote:
>FYI, I just picked up a bunch of "Bream and Crappie Kits" ...

I dunno George.... I'd hate to associate you with a "crappie" kit... ;-) - j

jeff stai
radio stuff: WK6I in DM13
rocket stuff: NAR #21059 TRA #3356 Level 2 Cert.
email: jstai@home.com or wk6i@arrl.net
ROC web page: <http://www.rocstock.org/>
LDRS web page: <http://www.ldr20.org/>

Date: Tue, 21 Aug 2001 14:17:17 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <nkennedy@tcainternet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105371] RE: RBA-1 Balun
Message-ID: <1010721141717.0AA16155@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/5/01 10:23 AM, Nick Kennedy at nkennedy@tcainternet.com wrote:

>Fools rush in, so I have to weigh in on this balun material issue. I know
>as little about it as anybody.
>
>I guess before making pronouncements, I'd ask, "What kinda balun is it?" I
>built one along with the Ultimate Transmatch many years ago, from the 1976
>ARRL handbook. The balun details called for a T-200-2, big old red
>powdered iron core.
>
>But those kind are out of fashion now. I guess they're called "voltage
>baluns". Nowadays, the "current balun" is popular.

The 2000 ARRL Handbook doesn't even MENTION voltage baluns.

>With this type of
>balun, you'd just wind the coax (or two 'bifilar" conductors) through a
>core. This gives an inductive reactance to common mode currents but is
>transparent to differential mode currents.

This is known as a Guanella balun. It is one of several types of current baluns.

> The current (2000) ARRL antenna
>handbook describes this type of balun as using a ferrite core. It also
>shows the old voltage type but indicates that the current type is now
>preferred.

You can make this type of balun with either type of core. (Or with no core at all, for that matter) How many turns you use depends largely on the size, type and mix of core you use.

>Iron powder has greater losses? I don't think so. Iron powder is
>generally used where higher 'Q' (lower loss) is needed.

Indeed.

>Iron powder: Higher Q, better temperature stability, lower permeability.
> Therefore favored for frequency sensitive circuits (tanks, filters) and
>for VFO frequency determining circuits.
>

>Ferrites: High permeability, so used where a bunch of inductance is needed
>but without a zillion turns required. Can be lossy (low-Q). Sometimes
>that fact is exploited. For instance, when ferrite beads are used to
>prevent spurs, it's really the effective series resistance more than the
>inductive reactance that you're using.

Also useful in ferrite bead (W2DU) type baluns, in which a string of beads is placed along the outer conductor of the coax. Powdered iron could be used as well, but you'd need a much higher number of cores, since powdered iron has a lower permeability.

>Getting back to baluns, I guess you'd want that common mode impedance to be
>high with respect to the 50 ohm impedance of the transmission line. With
>iron powder and a practical number of turns, you might not get there,
>especially on the lower frequency bands.

There are three solutions to this:

- a) use more turns
- b) use a larger core
- c) stack several cores together

Since the inductive reactance increase with the SQUARE of the number of

turns, getting enough inductance shouldn't be a terrible problem. The main reason to go to larger / more cores is to get sufficient power handling capability. (Although powdered iron can handle much more flux than ferrite can)

For this type of balun, you need as much impedance as about four times the sum of the input impedance, output impedance and the maximum offset of the output to ground. This is usually 500 ohms ($4 \times (50 + 50 + 25)$). Ten times is even better (1250 ohms). One caution is that inductors of this type also tend to couple between turns, so the more turns you use, the lower the self-series resonant frequency is. If you are going to want a balun to cover a wide frequency range, use as few turns as you can get away with to cover the lowest frequency.

Ferrites are better at covering a wide frequency range, since most of their impedance is resistive (eg losses).

>So the balun with the iron powder
>core probably wouldn't 'hurt anything', it just wouldn't be very effective
>in forcing a balanced condition.

If you use a proper core size, and number of turns, it should be just as effective.

>Wondering what kind of balun would appear in a more modern type tuner, I
>looked at my MFJ Versa Tuner 2 manual. It appears to be a current type
>balun with bifilar winding. Doesn't tell what type, but I'd imagine it's
>ferrite.

Be careful. A 4:1 voltage balun and a 1:1 current (Guanella) balun both have a bifilar winding. It's all in how you hook up the wires.

>A nice way to build a current (choke) type balun is with a bunch of big
>ferrite beads slid onto a short piece of coax. That's what I use now.

That's the W2DU design. There's also the W1JR design in which you wind coax on a large toroidal core.

> It's handy because I can move it around and use it just like a coax
>jumper. I got the details from W6RCA's page, but you can see it elsewhere.

W2DU balun designs can have problems handling lots of power, since the impedance of the beads is largely resistive. If there's any heating of the ferrites, it can quickly lead to a balun failure. This is because as the beads heat, they become more lossy. With sufficient power, you reach a loss tangent point and the beads reach their Curie temperature and stop acting as an inductive core.

Properly designed baluns won't do this. But not all designs sold are proper. For QRP, it probably doesn't matter so much, but if you ever fire up the amp, you could see trouble.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Tue, 21 Aug 2001 14:21:51 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>, "QRP" <qrp-1@Lehigh.EDU>
Subject: [105372] Re: RBA-1 Balun
Message-ID: <1010721142152.0AA16669@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/21/01 12:03 PM, Karl F. Larsen at k5di@zianet.com wrote:

>Yes Bill powdered iron is perfect for a high impedance choke to couple 12
>volts to a transistor. It's terrible as a transformer because it has so
>much loss. Check out some transistor circuits in any book and see what's
>used.

The specs from the distributor (Amidon) don't agree with you.

> I had a nice big powdered iron job in my BA-1 4-1 balun. Built it
>to spec's and it passed power ok but when I did the test for balun
>performance it failed. Replaced it with ferrite and it was perfect.

Could be a design problem with the original balun. There's no reason powdered iron can't be an effective balun core in a proper design. In fact, it could conceivably have a larger power and impedance range than a ferrite-core design of similar size. The ferrite-core design is likely to have a larger acceptable frequency range.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Tue, 21 Aug 2001 13:30:01 -0500
From: "George, W5YR" <w5yr@att.net>
To: wphinizy@filenet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105373] Re: Basics: Rebuilding a Volt/Ohm Meter
Message-ID: <3B82A8A9.20AD6B64@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This is curious, Bill.

To me a "VOM" is a device composed of a meter, switch(es), resistors and a battery. All totally "passive" in a manner of speaking. No active devices.

Sounds like you are upgrading the remains of a true VOM into a DMM. What a neat project! Keep us posted - there are lots of old VOMs gathering dust that could probably use such an upgrade and regain a position on the test bench.

If you are working with a true VOM, the resistance scale is probably far from linear, as well as being "backwards," and that may pose a calibration problem. Or you can just ignore it and use one of the voltage (linear) scales.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

"Phinizy, William" wrote:

> I came across an old VOM in the shack whose works are, believe me,
> wa-a-a-a-y beyond salvage. The meter, however, is quite good, and I thought
> I'd rebuild the innards from scratch as a learning exercise. Yes, I know you
> can get a Chinese pop-out for \$19.95 and they abound at swap meets for \$5 or
> so, but this is, well, you know, kind of a "Junk Box Wars meets Survivor"
> thing.

Date: Tue, 21 Aug 2001 13:39:05 -0500
From: "George, W5YR" <w5yr@att.net>
To: n4so@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105374] Re: MP-1 Antenna ground

Message-ID: <3B82AAC9.BEFA3846@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Qualitatively correct for the most part, but just how much must a vertical be elevated to "escape" ground losses? Will a few feet be effective or must it be raised a wavelength or two or more?

Interesting that all manufacturers of short, multi-band verticals that do not require radials present the same general sales pitch. But I have not yet seen comparative field strength measurements between, say, the antenna you describe and my Butternut HF9V ground mounted over 60 shallow-buried radials.

Frankly, there is no free lunch in the antenna world and vertical antennas unless erected in near free space are going to be influenced both good and bad by the presence of the Earth beneath them. And it is difficult to believe that a few short radials projecting from one end of the antenna is such an effective "ground shield" that it frees the antenna from any ground losses.

Color me confused but not so well sold . . .

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Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

CHARLES K BROWN wrote:

>
> Bruce Moscolini -
> Some statements regarding grounding verticals is in
> dispute. The old theory is that you need radials and
> you must ground a vertical.
>
> Force 12, Inc. suggests otherwise:
> SIGMA 40- new technology 40 meter vertical
> dipole 24 ft. tall, no radials--- Yes, I know these are
> vertical dipoles.

Date: Tue, 21 Aug 2001 11:42:23 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: aa4lr@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [105375] Re: RBA-1 Balun
Message-ID: <3B82AB8F.C955B684@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bill Coleman wrote:

>
> Could be a design problem with the original balun.

Sums it up nicely!

Phil W7OX

Date: Tue, 21 Aug 2001 14:45:04 EDT
From: Macstein@aol.com
To: brian@iquest.net, wb8icn@amexol.net, w8diz@fpqrp.com, fpqrp-1@mpna.com, qrp-1@lehigh.edu
Subject: [105376] Re: [fpqrp] Huntsville Hamfest [Brown-Bag Contest]
Message-ID: <e3.197d252b.28b40630@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 8/21/2001 8:01:16 AM Eastern Daylight Time,
brian@iquest.net writes:

> Ok gang...at FDIM we'll have contest LIKE the brown bag deal... 'cept....
>
>
> In this contest you have to build something that works out of nothing but
> the junk Phil has in the trunk of his car!

COOL -- kinda like "Junkyard Wars"! (Sure wish we could use my garage!)

-MAC-
AF4PS
-51
...Trust No One.

Date: Tue, 21 Aug 2001 11:43:55 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "qrp list" <qrp-l@lehigh.edu>
Subject: [105377] SSS Kits
Message-ID: <000d01c12a71\$3c0f6f00\$dd127d3f@dell>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Back from vacation, and all orders received as of noon today (8/21/01) have been shipped.

As to the PIC upgrade: If your 12C508A chip is silver colored on top, or has a silver dot on it, you have the upgraded chip. If the silver color does not appear, you may send a self-addressed adhesive label AND A STAMP to:

Dan Tayloe, N7VE
14240 South 7th Street
Phoenix, Az 85048

and he will send you an upgraded chip, which will fix the bug found by Chuck Olson, WB9KZY, and will also include a new repeating "F" mode.

Details on the SSS kit can be found at
<http://www.extremezone.com/~nk7m/cwaafc.htm>

Bob Hightower NK7M

Date: Tue, 21 Aug 2001 11:47:24 -0700
From: "Mike Morrell" <morrellm@ameritech.net>
To: qrp-l@lehigh.edu
Subject: [105378] Norcal 20 questions Redux
Message-ID: <210801233.42428@webbox.com>
Mime-Version: 1.0
Content-Type: text/plain

I apparently cannot seem to present clearly my problem to the group. I will take some photos outlining the problems I have experienced. I post these photos to my website ...a picture is worth a thousand words.

Tnx fer the DC power jack source.

MIke K8KE

Date: Tue, 21 Aug 2001 13:51:10 -0500
From: "George, W5YR" <w5yr@att.net>
To: aa4lr@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105379] Re: RBA-1 Balun
Message-ID: <3B82AD9E.FDA7EF9D@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bill Coleman wrote:

> >Getting back to baluns, I guess you'd want that common mode impedance to be
> >high with respect to the 50 ohm impedance of the transmission line. With
> >iron powder and a practical number of turns, you might not get there,
> >especially on the lower frequency bands.

Bill, I think that the defining impedance here is not the Z_o of the line but the impedance of the common-mode circuit that you are trying to "choke" with the balun. That impedance can be very high, in which case a balun will have little or no effect, or reasonably low, in which case the balun can be quite effective.

Sorry, but I cannot offer any suggestion for actually measuring the c-m impedance, but this may explain why, in some situations, a balun seems to have little or no effect, while being quite effective in others.

Tom Rausch, W8JI, has posted extensively on this topic in rec.radio.amateur.antenna newsgroup.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Date: Tue, 21 Aug 2001 14:55:46 EDT
From: Macstein@aol.com
To: ko4wx@mindspring.com, nogaqrp@qth.net, qrp-l@lehigh.edu

Cc: fpqrp-1@mpna.com
Subject: [105380] Re: [fpqrp] TDIA Brown Bag Mystery Construction Competition
write up on NOGA ...
Message-ID: <76.ea86b2c.28b408b2@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 8/21/2001 8:52:19 AM Eastern Daylight Time,
ko4wx@mindspring.com writes:

> (defrocked/dewinged FP#298)

Now Mike... on cannot be defrocked/dewinged from the FPs simply by being a
lyin', cheatin', turncoat spy. Else, we'd have almost NO members! I was a
Swamp Rat long before I was a pig, but my allegiance to the Pigs has only been
challenged by Paul, K4FB, who called me "a spy". This little competition is
gonna end up bein' the BEST! IMHO you remain a full fledged flyin' pig.
(But, then again, Diz may think otherwise!) Let me know if you need a foil
hat... I sometimes SIT on mine around these guys! So, hats of to the NoGA's.

-MAC-
AF4PS
FP -51
... Trust No One.

Date: Tue, 21 Aug 2001 14:55:10 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <w5yr@att.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105381] Re: Basics: Rebuilding a Volt/Ohm Meter
Message-ID: <002601c12a72\$d05738e0\$1505d10a@endpoints.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Actually, it's a neat exercise to turn ANY old meter in to a VOM.
I think Bill was implying he was gutting the whole thing and
starting over salvaging the meter movement and switch and not
much else.

There are documents that pretty much show you the 'plug ins' for
calculating the resistors to use for various ranges when you
know your meter sensitivity to start.

One thing... He could do that as a complete rebuild, but then he'd just be back to essentially the original meter. Now to put a small amp in there... Build his own FET-VOM!! Now that would be REALLY neat!

Mike

----- Original Message -----

From: George, W5YR <w5yr@att.net>

> This is curious, Bill.
>
> To me a "VOM" is a device composed of a meter, switch(es), resistors and a
> battery. All totally "passive" in a manner of speaking. No active devices.
>
> Sounds like you are upgrading the remains of a true VOM into a DMM. What a
> neat project! Keep us posted - there are lots of old VOMs gathering dust
> that could probably use such an upgrade and regain a position on the test
> bench.
>
> If you are working with a true VOM, the resistance scale is probably far
> from linear, as well as being "backwards," and that may pose a calibration
> problem. Or you can just ignore it and use one of the voltage (linear)
> scales.
>
> 72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
> Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
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>
>
> "Phinizy, William" wrote:
>
> > I came across an old VOM in the shack whose works are, believe me,
> > wa-a-a-a-y beyond salvage. The meter, however, is quite good, and I
thought
> > I'd rebuild the innards from scratch as a learning exercise. Yes, I know
you
> > can get a Chinese pop-out for \$19.95 and they abound at swap meets for
\$5 or
> > so, but this is, well, you know, kind of a "Junk Box Wars meets
Survivor"
> > thing.
>

Date: Tue, 21 Aug 2001 13:10:34 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [105382] Re: Fwd: Request to mailing list TenTec rejected
Message-ID: <20010821.131035.-16755.5.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Strange way to do things, but it IS his choo-choo. Too bad
the factory doesn't sponsor a list.

73
Ray

Date: Tue, 21 Aug 2001 12:15:08 -0700
From: Russ Carpenter <russ@natworld.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [105383] Results of the FLIGHT OF THE BUMBLEBEES
Message-ID: <B7A8014C.8E86%russ@natworld.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

The 2001 Flight of the Bumblebees was a WOW event, with a record number of logs and great scores. Four participants contacted more than 100 stations, and all four were "human powered" Bee operations. Congratulations to everyone who turned the Flight into a magic moment.

40 meter contacts received one point. Contacts on 20, 15, and 10 meters received two points. Bee contacts received a multiplier of 3X. The Soapbox will be published in the September issue of The ARS Sojourner.

We are pleased to announce the following winners for 2001:

MOST INTERESTING EQUIPMENT--W7EL, for his 2 element, 20/15 Field Day Special antenna, constructed of scraps of wire, two ancient sticks, and pieces of basalt.

MOST OUTRAGEOUS VENTURE--KC5WX, for assaulting Mt. Kendall, CO, and operating from an altitude of 13,066 feet above sea level.

MOST BEAUTIFUL SITE--N6XI, for his site on Martis Peak, CA, the cover shot for the August issue of The ARS Sojourner.

HIGHEST SCORING BUMBLEBEE OPERATION--AA5B, with 32,340 points

HIGHEST SCORING HOME-BASED STATION--W7QC, with 25,650 points

Call	40m	20m	15m	10m	Points	Bees	Score
AA5B/BB	6	96	11	0	220	49	32340
N0SXX/BB	4	77	22	0	202	47	28482
N7SR/BB	1	85	21	0	213	44	28116
K7TQ/BB	0	110	0	0	220	39	25740
W7QC	2	59	35	0	190	45	25650
N0UR	9	74	18	0	193	41	23739
WA7LNU/BB	7	68	17	0	177	43	22833
AK7Y/BB	0	81	2	0	166	37	18426
N7XJ/BB	0	89	0	0	178	33	17622
N1EU/BB	16	45	15	0	136	40	16320
N4BP/BB	0	64	21	0	170	28	14280
KI0II/BB	0	59	10	1	140	33	13860
N3AO	19	26	34	0	139	33	13761
WA9TZE/BB	0	75	0	0	150	30	13500
N6WG/BB	3	33	33	0	135	33	13365
N6MM/BB	5	32	28	3	131	34	13362
N9AW/MM	1	39	22	0	123	32	11808
W0CH/BB	3	52	0	0	107	30	9630
N2CQ/BB	21	46	0	0	113	28	9492
K0EVZ/BB	0	59	2	0	122	25	9150
N6GA/BB	8	39	0	0	86	32	8256
KC5WZ/BB	6	44	0	0	94	22	6204
N9MZZ	6	26	5	0	68	27	5508
AA7QU/BB	0	30	19	0	98	18	5292
W1VT	2	23	11	0	70	25	5250
NM5M/BB	0	48	0	0	96	18	5184
K4MF/BB	0	24	8	0	64	22	4224
N6XI/BB	17	22	0	0	61	23	4209
NK9G/BB	1	19	11	0	61	23	4209
W8PIG/BB	9	27	0	0	63	20	3780
N05DL/BB	24	23	0	0	70	17	3570
AD4MZ/BB	0	31	1	0	64	18	3456
N7GS	2	22	1	0	48	23	3312
KW4JS	4	21	2	1	52	21	3276
K2UD/BB	21	18	0	0	57	18	3078
N0IBT	0	19	7	0	52	19	2964
KB9LCK/BB	0	28	0	0	56	16	2688
KA1DDB	5	17	4	0	47	19	2679
K7GT/BB	10	17	0	0	44	19	2508
AC5K/BB	0	20	0	0	40	20	2400
W8DIZ/BB	0	20	2	0	44	18	2376
K5HWT/BB	0	22	0	0	44	18	2376
W9SUL/BB	2	27	2	0	60	13	2340

K8CV/BB	0	20	2	0	44	16	2112
W1PID/BB	7	9	7	0	39	17	1989
N7CEE/BB	0	27	0	0	54	12	1944
WD9F	1	17	2	0	39	16	1872
VE3ELA/BB	5	12	5	0	39	16	1872
AD6GI	6	8	8	0	38	16	1824
W6AGS/BB	0	17	0	0	34	15	1530
K3TW/BB	0	23	0	0	46	11	1518
NK6A	3	13	3	0	35	14	1470
KJ5VW	0	17	0	0	34	14	1428
KC2AFK	4	13	3	0	36	13	1404
WD0DDU	5	16	0	0	37	12	1332
K1KID	4	12	3	0	34	12	1224
KE1L/BB	2	14	2	0	34	12	1224
K04WX/BB	0	0	18	0	36	11	1188
K4AVX	1	12	2	0	29	13	1131
AA7EQ	0	14	1	0	30	12	1080
KQ6DV/BB	0	13	2	0	30	11	990
W3IRZ	0	15	0	0	30	9	810
WR50	0	9	4	0	26	10	780
AG0T	0	13	0	0	26	9	702
AB4PP	6	8	2	0	26	9	702
KG0MZ/BB	0	13	0	0	26	9	702
N7RVD/BB	0	14	0	0	28	7	588
KI0MZ/BB	0	12	0	0	24	8	576
AD6JY/BB	0	11	0	0	22	7	462
W4NJK	1	5	1	0	13	7	273
K6PZB/9	0	9	0	0	18	5	270
KA9IKK	0	7	0	0	14	6	252
N7LT/BB	0	16	5	0	42	2	252
K5RAC/BB	0	7	0	0	14	6	252
K8PZ	0	5	0	0	10	5	150
KG4FXG	0	5	0	0	10	5	150
K6HB/BB	0	5	0	0	10	5	150
KQ6NO/BB	7	0	0	0	7	5	105
G3CWI/BB	3	7	0	0	17	2	102
W4ED/BB	0	3	2	0	10	3	90
N0HRL	0	4	0	0	8	3	72
MW0IDX	0	8	0	0	16	1	48
N4UY	3	0	0	0	3	1	9
DK3RED	0	1	0	0	2	1	6
NI9Y	0	1	0	0	2	1	6
AD6WE/BB	2	0	0	0	2	1	6

Thanks for supporting The Adventure Radio Society!

Russ Carpenter, AA7QU
Contest Manager

Date: Tue, 21 Aug 2001 15:25:44 -0400
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: "Fpqrp Groups" <fpqrp-1@mpna.com>, "QRP-Post" <qrp-1@Lehigh.EDU>
Subject: [105384] Sad Note
Message-ID: <GAECLOGOMILPLBGKKPEGKEJOCCLAA.crmabbott@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

A Great & Sad Loss...
>
>
> I don't usually pass on news like this, but sometimes
> we need to pause and remember what life is about:
>
> There was a great loss recently in the entertainment world.
> Larry LaPrise, the Detroit native who wrote the song
> "Hokey Pokey," died last week at 83.
>
>
>
> It was especially difficult for the family to keep him in the
casket.
> They'd put his left leg in and . . .well, you know the rest.
>

Date: Tue, 21 Aug 2001 15:25:59 US/Eastern
From: n2cx@voicenet.com
To: nk7m@extremezone.com
Cc: qrp-1@lehigh.edu, n2cx@voicenet.com
Subject: [105385] Re: SSS Kits
Message-ID: <200108211926.f7LJQ9T12211@rain.CC.Lehigh.EDU>

Bob,

Pardon my ignorance but *what* PIC upgrades? :-)

Joe E.,
N2CX

This message was sent using Voicenet WebMail.
<http://www.voicenet.com/webmail/>

Date: Tue, 21 Aug 2001 12:32:05 -0700
From: Elda & Doug Wilson <ewilson@nccn.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105386] N to BNC
Message-ID: <3B82B734.33363C9B@nccn.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

Bob, n6cm was first to answer, so he gets them. Thanks for the response.

--
Doug Wilson k6rpn
Grass Valley, CA

Date: Tue, 21 Aug 2001 15:41:49 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: n4so@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [105387] Re: MP-1 Antenna ground
Message-ID: <3B82B97D.68CB4505@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

CHARLES ,

My name is spelled Muscolino. Write that down. It is important to me.

The case of a vertical dipole is different than that of a quarter wave vertical. The vertical dipole is a balanced antenna, no matter what you use to feed it, coax or twin lead! The quarter wave vertical is an unbalanced antenna. Again, whether you use coax or twin lead, YOU MUST PROVIDE THE OTHER HALF OF THE ANTENNA. This completes the RF circuit. I know of no act of congress or any other power that has rescinded the laws that govern RF circuits. If you want to use an inefficient antenna, use an ungrounded quarter wave vertical! If you want an efficient antenna use a ground for your quarter wave vertical or find a good vertical dipole!

73

>

> Bruce Moscolini -

> Some statements regarding grounding verticals is in
> dispute. The old theory is that you need radials and
> you must ground a vertical.

>

> Force 12, Inc. suggests otherwise:

> SIGMA 40- new technology 40 meter vertical
> dipole 24 ft. tall, no radials--- Yes, I know these are
> vertical dipoles.
> "One of the keys to high performance verticals is to

>

NOTE: Force 12 does not know anything that is not already in print!
They are making a vertical dipole. Please try to understand the
difference between a dipole and a quarter wave antenna!

Date: Tue, 21 Aug 2001 14:56:04 -0500
From: kcieslak <kcieslak@execpc.com>
To: qrp-l@lehigh.edu
Subject: [105388] FS: Ten Tec ARGOSY
Message-ID: <3B82BCD4.3FBEC3E4@execpc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Analog version of the ten tec argosy..Completely stock no mods no
accessories. With TT 225 PS
and TT 700 Microphone (Was 700 C but I replaced the connector to the
1/4" plug) and
10A breaker. I doubt that this rig has more than 100 hours on it.
Original manuals, mint shape.

\$300 Firm
Brian K9WIS

Date: Tue, 21 Aug 2001 15:57:07 -0400
From: "Lee S. Mairs" <lmairs@cox.rr.com>
To: <gheron@safenet-inc.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [105389] Re: Collapsible poles from Walmart
Message-ID: <009201c12a7b\$756853c0\$6401a8c0@cox.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Every time I see one of your emails my first reaction is to remember my
Paypal password!
I finally got my Cabelas pan fishing pole, but can't remember why I ordered
it. It must have been something that you or Joe suggested.
73 de Lee

One may have a blazing hearth in one's soul and yet no one ever comes to sit
by it. Passersby see only a wisp of smoke rising from the chimney and
continue
on their way.
--Vincent Van Gogh

----- Original Message -----
From: "George Heron" <gheron@safenet-inc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, August 21, 2001 2:11 PM
Subject: Collapsible poles from Walmart

> FYI, I just picked up a bunch of "Bream and Crappie Kits" in the sporting
> section of Walmart, each consisting of a 36" plastic (or fiberglass) pole
> that extends to 10 feet, a 112-yard spool of monofilament, and a neat
> dual-sided multi-compartment plastic component case ... all for \$7.50.
>
> Ostensibly this is all for fishing usage, however the astute QRP
homebrewer
> will find delight and multiple uses for each item:
> - the pole would make a great antenna extender/standoff for long wire and
> end-fed halfwave antennas used in portable & hotel operation;
> - four of these poles with an simple "X" center joint would make a
fabulous
> 20m "delta beam";

> - the monofilament is great for launching antennas up into trees with a
> slingshot, bow & arrow, or plain old garden variety rock;
> - the pastic case has many uses ranging from component storage on the
bench
> to small parts & antenna adapter storage on the road.
>
> Again, all for \$7.50.
>
> 73, George N2APB
> n2apb@amsat.org

Date: Tue, 21 Aug 2001 13:32:23 -0700
From: "Delbert Long" <delbert@gmcompliance.com>
To: <russ@natworld.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105390] Re: Results of the FLIGHT OF THE BUMBLEBEES
Message-ID: <005601c12a80\$6bf9d480\$6c01a8c0@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Okay, so I finished last...I still had a great time! And those two guys I
contacted (one with SMK-1) will get some really special QSL cards, whenever
I get off my duff and get them printed!

Hope to learn a little about antennas from all you guys (and gals) and do
better next year!

Del, AD6WE

Date: Tue, 21 Aug 2001 16:46:53 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [105391] OT --Calculators
Message-ID: <9b.19d4bc7e.28b422bd@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Here is a site for any calculation you could want, ham or otherwise---Alan
KB7MBI

<http://www-sci.lib.uci.edu/HSG/RefCalculators.html>

Date: Tue, 21 Aug 2001 14:05:05 -0700 (MST)
From: cherry@getnet.net
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105392] Re: MP-1 Antenna ground
Message-ID: <998427905.3b82cd018ec69@mail.getnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

The same goes for horizontal antennas. If you have water for the ground both horizontal and vertical antennas have more gain. The advantage of the vertical dipole is the center is higher. The Butternut HF9V will have more gain if all the radials were above ground, unless the ground is sea water.
Jim FitSimons W7ANF

Quoting "George, W5YR" <w5yr@att.net>:

> Qualitatively correct for the most part, but just how much must a
> vertical
> be elevated to "escape" ground losses? Will a few feet be effective or
> must
> it be raised a wavelength or two or more?
>
> Interesting that all manufacturers of short, multi-band verticals that
> do
> not require radials present the same general sales pitch. But I have
> not
> yet seen comparative field strength measurements between, say, the
> antenna
> you describe and my Butternut HF9V ground mounted over 60
> shallow-buried
> radials.
>
> Frankly, there is no free lunch in the antenna world and vertical
> antennas
> unless erected in near free space are going to be influenced both good
> and
> bad by the presence of the Earth beneath them. And it is difficult to
> believe that a few short radials projecting from one end of the antenna
> is
> such an effective "ground shield" that it frees the antenna from any
> ground
> losses.

>
> Color me confused but not so well sold . . .
>
> 72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

Date: Tue, 21 Aug 2001 17:32:01 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105393] RE: OT --Calculators
Message-ID: <125490A005E3D3118C9C00805FC743CC023B3744@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

My word! If that is off topic, show me more!

Thanks!

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----
> From: ARDUJENSKI@aol.com [mailto:ARDUJENSKI@aol.com]
> Sent: Tuesday, August 21, 2001 4:47 PM
> To: Low Power Amateur Radio Discussion
> Subject: OT --Calculators
>
>
> Here is a site for any calculation you could want, ham or
> otherwise---Alan
> KB7MBI
>
> <http://www-sci.lib.uci.edu/HSG/RefCalculators.html>
>

Date: Tue, 21 Aug 2001 17:51:30 -0400

From: Dave Fouchey <dafouchey@home.com>
To: rohre@arlut.utexas.edu, "Low Power Amateur Radio Discussion" <qrp-
l@lehigh.EDU>
Subject: [105394] Re: Altoids and other tins
Message-ID: <4.1.20010821175019.009b42e0@localhost>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Speaking of tins anyone else get one of AOL's new CD's in a tin CD Case?
Now THAT would be a challenge!

72's
Dave
WA4EMR/8

At 07:18 PM 8/20/2001 -0500, Stuart Rohre wrote:
>Karl and the group,
>Now you can get several brands of tins in Walgreens Drug stores besides
>Altoids in a couple of sizes! They have a small tin of hot Walgreens mints.
>There are other brands now as well. Lots of rig possibilities.
>72,
>Stuart K5KVH
>

Date: Tue, 21 Aug 2001 15:22:47 -0700
From: Russ Carpenter <russ@natworld.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [105395] Listen for THE ARS RENDEZVOUS!
Message-ID: <B7A82B99.8EB9%russ@natworld.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

The ARS Rendezvous will take place this Friday, Saturday and Sunday. We'll
be having a great old time in the Mt. Jefferson Wilderness, OR.

Listen for the following calls on the standard QRP frequencies:

W7Z0I (Wes Hayward)
VE7QK (Derry Spittle)
N7RVD (Brian Wingert)
K7GT (Allan Taylor)
AA7QU (Russ Carpenter)
AA3SJ (Ed Kessler)

In addition, we may have a few mystery guests. We hope to contact you!

Russ Carpenter and Wes Hayward, co-leaders

End of QRP-L Digest 2288
